



National Radio & Telecommunication Corporation

Reliability, Quality & Self Reliance

STATE OF THE ART EQUIPMENT TESTED IN LABS, PROVEN IN BATTLE FIELDS

Military Radios



Tactical Comm.



Digital Investigation Suite



Land Mobile Radios



RCIED Jammers



EOD Solutions & Robotics



Surveillance Solutions & Safe City



Communication Security



Solar Power Solutions



ITS & ANPR



Ground Surveillance Radar



Electronic Warfare System



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NATIONAL RADIO & TELECOMMUNICATION CORPORATION HARIPUR (KPK)- PAKISTAN

(Product Range, Capabilities, Facilities)



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NATIONAL RADIO & TELECOMMUNICATION CORPORATION



Introduction



National Radio and Telecommunication Corporation is a high tech industry engaged in manufacturing of telecommunication equipment in Pakistan.

About NRTC

National Radio and Telecommunication Corporation (NRTC) is a World-Class telecommunication and electronic equipment manufacturer. We have built our business around our ability to offer creative and tailored solutions worldwide, providing the best total value while building premier customer relationships.

Since 1965, NRTC has been a highly stable and reliable partner for customers who require high-tech communication equipment and solutions. Our success comes from the innovative value proposition we bring to electronic manufacturing proof of its uniqueness is in our enviable track record for decades.

At NRTC, we build lasting relationships with our customers through provisioning of quality solutions and unparalleled 24x7 support based upon commitment and dedication.

Quality Policy

To provide our customers world class quality telecommunication equipment which meets all their operational requirements, in time, at affordable costs. User's satisfaction is our top priority in the process chain, from receipt of raw material, through manufacturing and delivery, till final acceptance.



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Military Radios

V/UHF Software Defined Radios SDR Family



Based on its software configurable architecture, SDR ensure clear or encrypted voice and data communication in VHF and UHF frequency bands (30-512 MHz) as well as full automatic integration with tactical and strategic networks to provide “cellular phone” services to tactical users. The radio transceiver features a 96x 64 graphical LCD display and a 3x6 keypad for easy man machine interface. The menu structure and controls are very similar to cellular phones for ease of use and training. SDR ensure increased survivability against Electronic Warfare threats by providing alternative communication functions compared to conventional radios. The Software Defined Radio is equipped with highly secure communication methodology owing to its Frequency Hopping feature, which makes the communication immensely cumbersome to be detected on the wireless channel. Various radios waveforms operating in different frequencies and modulations (FM, AM) can be utilized by means of the software running on the radio. The SDR has the capability of creating a 30 channels TDMA packet switched network.

PRC-77/PK VHF - FM Radio Set (Up Graded)



The up-gradation has been carried out incorporating certain modern design techniques along with the use of SMD components. Up-graded PRC-77 radio set have all the features of modern Radio like encryption, integrated circuitry, digital synthesizer at a substantial lower cost as compared to new modern radio. With introduction of new boards all old modules with problematic micro switches and gang capacitors have been removed from Transmitter and Frequency Synthesizer.

HF SDR - H1 Software Defined Radio



HF Software defined radio is a new generation high performance digital radio covering 1.6-30 MHz HF Band. Software configurable architecture provides reliable secure voice and data communications by supporting various HF radio waveforms and EPM techniques. Beyond line of sight voice/data communication is achieved with the utilization of the most advanced HF technology covered in the related NATO STANAGs and Military Standards. HF SDR Radio establishes reliable, fast and secure voice and data links with support of digital voice, built in encryption and modern capabilities. With the use of modern technologies such as 3rd Generation Automatic Link Establishment [ALE] and Automatic Channel Selection [ACS], these radios provide ease of use, reducing the need for well trained and experienced HF radio operators. PRC/VRC HF radio enables encrypted voice and data communication also in frequency hopping mode.

Personal Role Radios (PRR) New Two-Way Digital Radio



Full-duplex communication/Hands free radio without PTT button. Text messaging with pre-installed messages. Full-duplex group talk up to 12 radios. GPS/GIS support to share location data in real time. High-level security algorithm: AES-128. Portable radio with small and light design Dust and water protection (IP55). Clear voice communication by reducing ambient noise including firearms and explosions for Soldier, for Special Forces, Maintenance Team, Police, Fireman, Security, etc.



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Digital Intercom System

Using the modern digital switching and conferencing technologies, digital audio is transmitted and received among the functional units. Digital Intercom system can be configured with any HF, VHF or UHF radio. Illuminated display panels to reflect the important communication status of intercom and radio networks. Proven in the field, reliable controls at each functional unit provide long lasting and trouble free functionality.



Technology for the Next Generation Networks NR 80 GE(70/80 GHz 1.25 Gbps)



NR-80GE is compact, easy to deploy and low cost millimeter wave radio relay link for building backbones networks. The link uses channel bandwidth 1250 MHz and modulation scheme DBPSK. Transmission capacity is up to 1.25 Gbps full duplex (2300 Mbps aggregate) with system configuration 1+0, 1+1. The link operates in Unlicensed/licensed band 71-76 / 81-86 GHz. The whole equipment is built in

Outdoor Unit (ODU) integrated with 0.35|0.65m antenna. Support Automatic Transmit Power Control (ATPC) with full over voltage protection of ODU unit. The equipment contains 2x Gigabit Ethernet interfaces with optional SFP slot for electric/optical Gigabit Ethernet. Typical link distance 5 km for 99.99% availability (H:32mm/h). All these functions participate on high transmission quality under all weather conditions.

Wireless Ethernet Solution NR W/E4-24 Ghz 900 Mbps/966 for MTU 64B



NR-W/E is compact, easy to deploy and low cost microwave radio relay link for backbones and last miles. It is suitable for building LAN, MAN and WAN networks. The link can use channel bandwidth up to 112 MHz with transmission capacity up to 900 Mbps full duplex (1800 Mbps aggregate) for 1+0 system configuration and up to 1800 Mbps full duplex (3600 Mbps aggregate) for 2+0 system configuration. The link operates in unlicensed/licensed band 4-24 GHz. The whole equipment is built in all Outdoor Unit (ODU) integrated with 0.35|0.65|0.9 and 1.2m antenna. Support Automatic Transmit Power Control (ATPC) with full overvoltage protection of ODU unit. Automatic Transmit Power Control (ATPC) with Cross Polarization Interference Cancellation (CPIC). The equipment contains 2x Fast Ethernet interfaces with optional SFP slot for electric/optical Gigabit Ethernet. The link also supports Automatic Transmit Power Control (ATPC) and Hitless Adaptive Coding and Modulation (ACM). All these functions participate on high transmission quality under all weather conditions.



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Wireless Solution For Ethernet PDH and SDH Networks NR PDH/SDH 4-38 Ghz 400 Mbps/525 for MTU 64B



NR-W/E is compact, easy to deploy and low cost microwave radio relay link for backbones and last miles. It is suitable for building LAN, MAN and WAN networks. The link can use channel bandwidth up to 112 MHz with transmission capacity up to 900 Mbps full duplex (1800 Mbps aggregate) for 1+0 system configuration and up to

1800 Mbps full duplex (3600 Mbps aggregate) for 2+0 system configuration. The link operates in Unlicensed/licensed band 4-24 GHz. The whole equipment is built in all outdoor unit (ODU) integrated with 0.35|0.65|0.9 and 1.2m antenna. Support Automatic transmit power control (ATPC) with full overvoltage protection of ODU unit. Automatic transmit power control (ATPC) with cross polarization interference cancellation (XPIC). The equipment contains 2x Fast Ethernet interfaces with optional SFP slot for electric/optical Gigabit Ethernet. The link also supports Automatic transmit power control (ATPC) and Hitless adaptive coding and modulation (ACM). All these functions participate on high transmission quality under all weather conditions.

Tac COMNET

Integrated Communication Command & Control

COMNET is an Integrated Communication Command and control Solution (IC3), which is developed by keeping in mind the current and future requirement of Military to compete with world in latest technology. COMNET support every kind of Backbone like Fiber, Ethernet, E1, All type of Radios (E&M Circuits) that may be military and commercial, Legacy Voice communication (FXS, FXO, Local Battery), Distribution of real time Radar data to multiple sites and modern technology like SIP Exchange, SIP Phones, etc. A user friendly GUI helps the operators to takeover any Radar Site from Command & Control Center. Command and Control Center can even control multiple Radar sites from Single user friendly GUI. All communication of Operator including functions performed on screen will be recorded with time tag, in order to use for auditing and other purposes in time of need.



Tactical Media Gateway

The TMG is synonymous with a new era of operational voice communication in safety and mission-critical voice. The purpose of TMG is to integrate radios, traditional telephone lines, IP communication seamlessly over one network. Network can be extended across the country over fiber and E1. Software is responsible for monitoring and configuration of TMG. Different level of logs and recording are maintained for various purposes. It offers features to enhance your operational system in terms of safety, efficiency, reliability and interoperability.



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Tactical Access Node



The TAN is synonymous with a new era of operational voice and Radar Data communication in safety and mission-critical voice and data systems. The purpose of TAN is to convert the radio communication to VOIP, Routing of Voice and Data, Distribution of Radar Data to Remotely located Radar Displays. E1 and Fiber extend the network to country level. TAN Aggregation unit is responsible for monitoring and configuration of TAN Sensor nodes. TAN NMS system helps to monitor the health of Sensor Nodes in real time. It offers features to enhance your operational system in terms of safety, efficiency, reliability and interoperability.

IPX-2062



IPX-2062 is a key development of NRTC in enabling the growth of VoIP services, offering a simple, robust, interoperable standalone solution without the need of major capital investment. It minimizes the number of conversions between packet-switched voice and circuit-switched voice, power and resources minimization, cost effectiveness etc. It can be directly interfaced with legacy exchanges.

Secure Smart Radio Gateway (SRG)



Smart Radio Gateway (SRG) is state of the art compact; mil standard based complete hand carry Tactical Secure Radio Gateway. It is plug & play device, during critical and emergencies situations it is most reliable friend. It will help the command to remotely control the field radios, not only this but in any circumstances a radio can also make a call to any PSTN number. This small device is capable of connecting 4 networks on one device, no matters which type/vender of radio is, for local and remote control. It will not disturb the existing network and become its part intelligently. Its low Audio codec make him capable for real time satellite communication. Direct DC operation allows him to operate directly on battery and solar panels. Its entire configuration is Web GUI based.

Field Phone IP Gateway (LB-19)



LB-IP Gateway is state of the art compact; complete Field Phone (Local Battery) to IP gateway. It is plug & play device, during critical and emergencies situations it is most reliable friend. Every Field Phone will now act as a SIP user. SIP Trunking makes it capable of communicating with other SIP Servers. Every LB Phone now have a unique number and accessible through PSTN and SIP. Customization is also possible to accommodate any kind of requirements. Multiple power options i.e. AC and DC. Web GUI helps to remotely configure and manage gateway. SSH is also available for expert configuration. Automatic Voice Response guides to correct operation and direct access without any operator interference.



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PFX-3208 Digital Electronic Field Telephone Exchange



Network Management System (NMS) is an efficient and quick way of receiving automatic alerts and fault diagnosis. NMS has capabilities to monitor applications, services, operating systems, network protocols, system metrics and infrastructure components. Powerful script APIs allow easy monitoring of in-house and custom applications, services, and systems.

IP Interoperability FD EXCHS Up Graduation



In order to equip the NRTC's TDM Exchanges (PFX-3208, 1604, 6416) with IP telephony features NRTC developed a software defined VoIP Trunking module. VoIP Trunking module can be interfaced universally with all types of field exchanges developed by NRTC. The Module IP-Interface is an external unit to PFX-3208, PFX-1604, PFX-6416 with two POTS interfaces and two Ethernet port (LAN/WAN). This module converts two analog trunk lines into IP trunk lines. The Ethernet WAN port will be connected to Network router/switch available in the Army's Intranet. LAN port is used to connect/register SIP numbers to universal IP Interface.

Electronic Field Telephone EFT 101P



The EFT - 101 Field Telephone is a rugged, lightweight and waterproof of analogue telephone set designed according to military requirements and suitable for connection to manual (magneto) or automatic Field Telephone Exchanges, to a similar telephone. Besides an efficient and low power consumption electronic circuitry, EFT-101P is also equipped with high voltage and surge protection circuitry.

PFX-1604 Digital Electronic Field Telephone Exchange



The PFX-1604 is a fully Digital man portable Field Telephone Exchange for use in harsh environment as per MIL-STD 810E/F. The system has Multiprocessor Architecture, which provides a reliable system control and voice and data switching services for individual subscriber at units/sub unit level. PFX-1604 is equipped with a user friendly operator console by providing status information of trunk/subscriber on busy field display and illuminated keyboard/LED screen is provided to assist the operator during operation at night.

Electronic Field Telephones



The EFT-101, designed to be easy to use and carry, is built to withstand rigors of field use. It will deliver clear, reliable communication in operational field conditions. Designed with latest SMD technology electronic components to reduce the power consumption. EFT-101 can be used with range of electronic PABX's.



RCIED Jammers

Vehicular Broad Band PK-600 Jammer (20MHz-6000MHz)



The PK-6000 is high power VHF-low, VHF-high, UHF, GSM900, GSM1800, 3G-4G- LTE, Wi-Fi, Wi-Max and Thuraya sweep/spot jammer. This device utilizes push-pull LDMOS/VDMOS/GaN power devices that provide excellent power density, high efficiency, and wide dynamic range in continuous working. Spot frequencies can be programmed into the equipment with the help of Wired Touch LCD remote unit. The system is divided into two units UNIT-1 and UNIT-2.

Vehicular WideBand WB-300 Jammer (20MHz-500MHz+GSM 900/1800/3G/4G)



The WB-300 is high power VHF-low, VHF-high, UHF, GSM900, GSM1800 and 3G sweep/spot jammer. This device utilizes push-pull LDMOS/VDMOS/GaN power devices that provide excellent power density, high efficiency, and wide dynamic range in continuous working. Spot frequencies can be programmed into the equipment with the help of Wired Touch LCD remote unit.

Vehicular WideBand WB-200 Jammer (20MHz-500MHz)



The WB-200 is high power VHF-low, VHF-high, UHF sweep/spot jammer. This device utilizes push-pull LDMOS/VDMOS devices that provide excellent power density, high efficiency, and wide dynamic range in continuous working. Spot frequencies can be programmed into the equipment with the help of Wired Touch LCD remote unit.

Vehicular GSM PK-100 Jammer (GSM 900/1800/3G/4G)



The PK-100-3G is vehicular borne high power GSM jammer. This device utilizes push-pull GaN power devices that provide excellent power density, high efficiency, and wide dynamic range in continuous working.

Manpack MP-200 Jammer (20 MHz-500 MHz)

The Man-Pack is high power VHF, UHF high sweep/spot jammer. This device utilizes push-pull LDMOS/VDMOS power devices that provide excellent power density, high efficiency, and wide dynamic range in continuous working. Spot frequencies can be programmed into the equipment with the help of a Wired Touch LCD remote unit.



Trolley-Briefcase MP-100 GSM Jammer (GSM 900/1800/3g/4g)

The GSM Trolley- Briefcase is high power sweep GSM Jammer. This device utilizes GaN power devices that provide excellent power density, high efficiency, and wide dynamic range in continuous working. Wired Touch LCD remote unit.



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Trolley-Briefcase MP-300 GSM Jammer (20MHz-500MHz+GS900/1800/3G/4G)



The Trolley- Briefcase is high power VHF, UHF high sweep integrated with GSM Jammer. This device utilizes push-pull LDMOS/VDMOS GaN power devices that provide excellent power density, high efficiency, and wide dynamic range in continuous working.

Compound/Prisons Static Jamming Solution

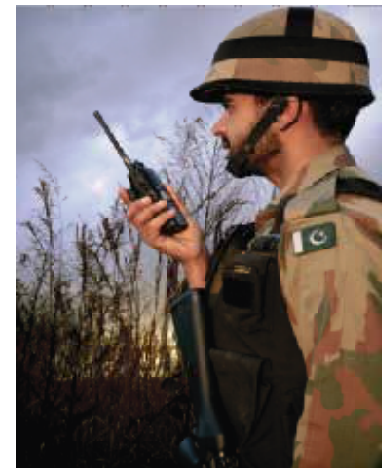


Fixed installation contain same jamming unit that are customized on the basis user requirements. Fixed Jammer system designed to jam unauthorized cellular phones while permitting authorized cellular phones to operate. With the static Jammer, control can be managed over criminal communications in a prison or any targeted compound, unauthorized calls in a courthouse, military installation, or specific environment where cell phone activity must be managed. The fixed jamming solution is presently deployed in Pakistan Prisons.

Public Safety & Critical Communication Systems

NRTC critical/public safety communication systems are offered to users who need communication within and / or between institutions, especially including public safety and health institutions providing security services. NRTC public safety communication solutions enables to create a fast, reliable, flexible, mobile and economical communication system to diminish action and reaction period by means of utilizing technology in the utmost level and enables to reach information in a fast and timely manner.

NRTC has been providing systematic solutions to the communication needs of different security organizations since more than 40 years. The modular system architecture provides secure communication services to Public Safety/Security Forces and/or Military Organizations (Police, Counter Terrorism Force, Intelligence Organizations, Coastal Guards, and Security Forces, Military and paramilitary forces, in accordance with the technological developments around the world, solutions are developed every day to make them faster, reliable, flexible, mobile and economical.



Technologies Used for Public Safety Communication



What Makes NRTC Public Safety Solutions Different?

NRTC Radio solution for public safety has reliable Audio and Data Integration with System availability- Anytime, anywhere. It provides interconnection with other systems and technologies, with reliable hierarchical and modular system architecture. NRTC radio solutions in VHF and UHF band along with End-to-end Digital Encryption features (Software and Hardware) includes both Trunking and Conventional Systems utilizing all digital technologies (LMR/DMR/P25/TETRA/LTE) and TETRA+LTE). Our Turnkey Radio Solution design provides smooth migration, implementation and interoperability to achieve captivating customer satisfaction.



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NRTC Terminal Radios

NRTC provides technology smart radio terminal equipment for LMR/P25/DMR/TETRA and LTE communication systems developed by NRTC, has the ability to communicate on digital simplex, digital direct and Trunking mode and provides backwards compatibility solution. On all supported channels, digital clean, encrypted software, encrypted hardware receive and transmit can be made.



Handheld Radios

NRTC Portable Radios meets customers' requirement with their features such as LCD Monitoring Screen, alphanumeric keypad, high battery capacity, and voice quality, ergonomic design, resistant to environmental conditions, usage ease, voice accessories connectivity, and visible caller id and built in test. Regarding the needs of the customer, authorization enables to establish a hierarchical structure regarding the needs of the customer.

Fixed/Desktop Radios

NRTC Desktop Radios designed and manufactured for use in units such as system management centers, operation centers, call centers, etc., Desktop Radios are preferred mainly because they can easily access the system through base stations with high transmit power at remote centers.

Desktop Radio has an LCD display, an alphanumeric keypad and an integrated loudspeaker. It allows data communication through the accessory connector on the microphone connector, from the data connector to the PC. NRTC Desktop Radios are used with specially designed power supplies.



Mobile/ Vehicular Radios

NRTC Mobile Radios have been used for many years by thousands of public safety personnel who need to use radio in vehicles such as ambulances, fire trucks, and patrol vehicles. The use of vehicle radios in the field of public safety provides many additional advantages. The most important advantage provided is about the coverage area. Access to the system is possible at much longer distances, as vehicle radios have higher power than hand-held radios. Another factor expanding coverage area is to use high earner antennas in vehicle radio antennas than handheld radios. Usage of a vehicle radio prevents signal distortions caused by the metal construction of the vehicle due to the antenna mounting on outside of the vehicle. Mobile Radios has an LCD display and alphanumeric keypad. Keys on the body can be used for all functions, such as SMS sending, name entry, etc., which require the use of an alphanumeric key.



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NRTC Base Stations

The NRTC designed Base Stations are available for different LMR/D-MR/P25/TETRA and LTE communication protocol. These base stations are designed for use by organizations that have a large number of user groups, especially in urban centers, creating intense communication traffic and needing efficient frequency planning. NRTC Base Stations are designed in full compliance with ETSI standards, backs up critical units such as power supply and site control unit. The base stations are located in a compact customized cabinet that is resistant to environmental conditions such as rain, dust and solar radiation.



Radio System Services



INFRASTRUCTURE AND TRAFFIC ANALYSIS, SYSTEM ARCHITECTURE AND CONFIGURATION PLANNING

Regarding customer requirement and budget, most suitable system and configuration is offered. Initially, NRTC plans infrastructure and traffic analyses. Thereafter, system is designed.



COVERAGE ANALYSIS AND FREQUENCY PLANNING

Among the frequency set which customer is authorized to use, efficient frequency plan is configured. Advanced coverage area analyze program simulates coverage area given the site locations.



SYSTEM CENTER AND FIELD INSTALLATIONS

Our experienced personnel performs all installation and integration activates both in System Management Centers and Sites. Our quality ensures that all communication components are operating precisely.



R&M AND TRAINING SUPPORT

Long term customer support with strong O&M is provided to all public safety communication users. End users are also trained for the most effective and efficient use of the communication systems / devices. Through the trainings users gain the competence methods of ensuring the continuity of the systems during their life cycles.



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Digital Data Drilling - D3X

SVI (Signaling & Voice Intercept)

SVI (Live CDR and Voice Monitoring) system is a dedicated solution for Live CDR and voice interception. It is extracts voice data and Live CDR data in real time and supports mobile network, fixed network, PSTN and IMS network. For this project, 5 operator's Live CDR is need to be extracted, and 3*E1 links for each operator. So in this project, 5 TAP points and 3*5=15*E1 links are need to be Tapped. After all the Meta data obtain, the xDR need to be extracted, voice data extraction is not in this project scope.

For this requirement, 2 solutions can be designed as follow:

Solution 1: Live CDR data Tap, acquisition and extraction all are in the operator's center, the target xDR data transmit to the MC by customer's transmission network.

Solution 2: Live CDR data Tap and acquisition are in the operator's center, but data extraction in the customer's monitoring center. So all the Meta data need to transmit to the MC for extraction by customer's transmission network.

Eagle Eye Wi-Fi

Eagle Eye Wi-Fi is a tactical mobile system for interception data in Wi-Fi networks. System is optimized for stealth usage and operating by staff with basic engineering skills. System has module architecture, can be mounted on vehicle or used by one operator in public places with no suspicious devices. It can be operated at one laptop or can be scaled for simultaneous capture of the traffic from several points. Two main goals of Eagle Eye Wi-Fi solution are to be stealth and smart:

Stealth – can work in total passive mode, looks like any other common laptop.

Smart – doesn't need months of training for operator to start using, most routine actions are automatic, has user-friendly interface.



GEO Fencing System

GEO Fencing System is a software designed for analysis GSM tower data (all calls, events). This helps LAW enforcement agencies to work fast and get results in short time. Which reduces mental stress of police officers to a great extent. Allows them to work efficiently on field. What those officers used to do manually such as analyzing call records to get various types of reports, work for multiple numbers and work on tower record. System has the capability to handle large volumes of structured data, in-built statistical features, and offers easy filtration through programming, with which you can extract useful information.



CDR Analysis System

CDR Analysis System is a Software Application which will help Police Department, Security Agencies and Law Enforcement Agencies to Analyze, Investigate & Work on the 'Call Data Records' and any other such type of records, received from various Mobile Operators quickly and efficiently, regardless of difference in Column Formats & Operators Layout Formats.



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D3X Analytic Engine

With the advent of advancement in technology, the governments are driving intelligence based on state-of-the-art big data & analytics engines. Most premier intelligence agencies in the world are using huge data centres to collect data from wide range of sources including telecom companies, internet companies, banks, excise, taxation, travelling, air-ports etc. to perform data-driven intelligence and decision making.

In order to take a step in this direction, it is proposed to have an in-house big data and analytics solution, that can per-form advanced analytics on telecom CDR's data. The big data system will provide capability to process large amount of data from heterogeneous sources with a lightning fast speed and interactive visual analytics that is otherwise hard to analyse using conventional methods and databases.



Criminal Information System



Criminal Information System (CIS) is a Software Application. It is very useful application by Police Department, Counter Terrorist Department and other Law enforcement Agencies to keep and maintain the criminal information in a centralized database. It uses the most reliable and efficient techniques for maintaining and retrieving the detailed criminal's information.

Passive GSM Interceptor

Passive GSM Interceptor is used for listening mobile phone user calls and intercepting text messages and service messages at 2G technology with 3G and 4G Denial of Service and is available in 256 / 574 channels. It can support the diversity reception of signal from a single transmitter with spacing of two receiving antennas in space. It can be used for interception of those cellular conversations which supports A5/1 and A5/2 encryption algorithms.



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Man Pack Locator MPL-400



It is a portable device capable of capturing mobile phone information and pin point location of target phone. It supports all operating bands 850 MHz, 900 MHz, 1800 MHz, 2100 MHz and is technology independent. It is useful for target finding in narrow streets and high rise buildings.

Hand Held IMSI Catcher 2G/3G/4G



It is a portable / fixed light weight device capable of capturing mobile phone information of mobile phone user. It is used as an area profiling device at high sensitive areas and also for border control. It is implemented with a user friendly web interface for centralized data monitoring from multiple sensors integrated with several databases. It supports all operating bands 850 MHz, 900 MHz, 1800 MHz, and 2100 MHz and is technology independent.

NRTC Face Recognition

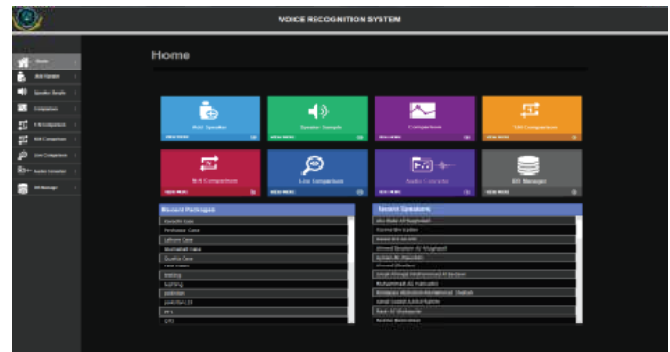
NRTC is providing accurate and convenient human face vision technology, providing strong technical support for different scenarios such as intelligent hardware interaction, surveillance, intelligence monitoring and safe city projects. Using industrial standard based on cutting edge technology and efficient deep learning algorithms.

Active Locator System VT-400



Active Locator System is a vehicular system capable of capturing mobile phone information and pin point location of target phone. This system can be extended up to 10 BTS depending upon the user requirement. It supports all operating bands 850 MHz, 900 MHz, 1800 MHz, 2100 MHz. This system is frequency dependent and technology independent. This system is long range and can be used in all types of terrains with user friendly interface.

NRTC Voice Recognition



NRTC Voice Recognition is aimed to identify a person from characteristics of voice (Voice Biometrics). The system can perform a N: N search of incoming voice samples per day against a target or watch list database of known or suspect voice records.



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Digital Forensics



Encase R Forensics

Encase® Forensic is a powerful investigation platform that collects digital data, performs analysis, reports on findings and preserves them in a court validated, forensically sound format. It easily captures relevant data to support an investigation or compliance requirement and features sophisticated technical analysis capabilities for finding buried and/or hidden data.

Forensic Toolkit (FTK)

FTK is an award-winning, court-cited digital investigations solution built for speed, stability and ease of use. It quickly locates evidence and forensically collects and analyzes any digital device or system producing, transmitting or storing data by using a single application from multiple devices.



Cellebrite UFED Touch 2 Ruggedized

UFED Touch2 is a fifth-generation standalone mobile forensic device for the lab and field. With enhanced speed, usability and portability, UFED Touch2 results in 3 times faster content extraction, enabling agencies to solve crime faster.



XRY Physical & logical

This is our top of the range solution combining the best of both worlds with XRY Logical and XRY Physical in one complete package, hence the name. With XRY complete you will be able to perform both logical and physical extractions from a device, giving you the best possible opportunity to recover all the available data from a mobile device, and allowing you to compare the results between the different recovery methods. This system is supplied with all the necessary hardware from both the Logical and the Physical systems to ensure you have everything you need to do complete the task.



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BlackBag Mobilyze



With the dynamic acquisition capabilities of Mobilyze, investigators can instantly examine data and quickly decide which evidence requires further forensic investigation. Mobilyze is perfect for investigators with minimal digital forensics experience by providing User-friendly, with minimal training required to use Mobilyze in the field. Simply plug the iOS or Android device into the system's USB port running Mobilyze, and immediately start acquiring data. Perform logical acquisitions, allowing investigators to acquire a full or limited data collection in real time. Discover evidence quickly through an easy-to-use integrated interface. Examine data through various categories, filters, searches and views. Securely preserve all relevant user data in a forensically sound manner.



Internet Evidence Finder (IEF)-Magnet

Internet Evidence Finder (IEF) recovers deleted and existing artifacts relating to chat conversations, web browsing history, social media and other common Internet activity.

All-in-one automated tool that gets to evidence quickly with very little manual intervention. Increase Efficiency: "Set it and forget it" while you work on other tasks and improve case turnaround times. Uncover deleted and existing evidence from 200+ Internet-related artifacts. Get to evidence quickly. Minimal learning curve with no extensive training required.



X1 Social Discovery

X1 Social Discovery™ is the industry's first investigative solution specifically designed to enable eDiscovery and computer forensics professionals to effectively address social media content, website collection, webmail, and YouTube video capture, in one single interface.

X1 Social Discovery is designed to effectively address social media content from the leading social media networking sites such as Facebook, Twitter and LinkedIn. In addition, it can crawl, capture and instantly search content from websites, webmail and YouTube. Unlike archiving and image capture solutions, X1 Social Discovery provides for a matter-centric workflow from search and collection through production in searchable native format.





Kinesense KES

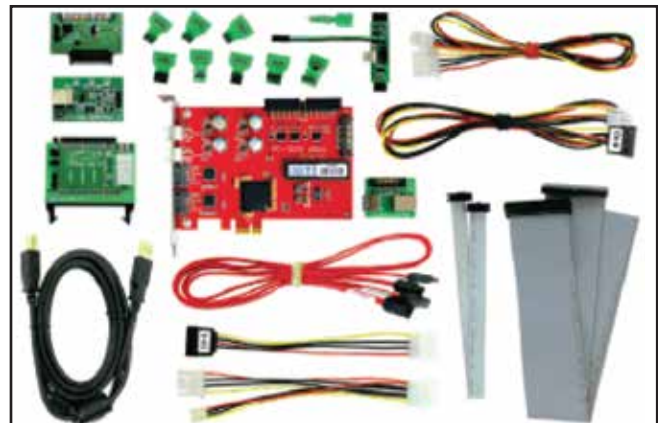
Video is an important part of the puzzle in major incidents, organised crime and volume crime. With Kinesense KES you can deploy video investigation capability flexibly across your organisation, so personnel have functionality when they need it.

By simplifying video processing with automatic search technology and template based workflows, non-technical staff can collect, process, search, review, tag and report on their findings. KES is ideally deployed as part of a Digital Asset Management (DAM) initiative to deal with video.

PC-3000 Drive Restoration System

Drive restoration is the fundamental first phase in the 3D Data Recovery process, before disk imaging and final data retrieval. Now you can diagnose and fix drive-level firmware failures, as well as some mechanical and electronic issues, for almost every drive, giving you more power, more control, and in the end, more data for your clients.

As a data recovery professional, chances are you have ways to deal with mechanical drive failures. You may even have some success with electronic problems. But can you handle the firmware problems that cause 50 percent of all drive failures up to 90 percent for some models? If not, you may be missing the evidence.



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Explosive Ordnance Disposal Equipment & Robotics

NRTC EOD Tracked Robot



NRTC indigenously developed TRACKED EOD ROBOT is a highly ruggedized, durable, and powerful, light-weight, tracked vehicle that can be used for EOD, communication, security, defense and rescue operations. The robot is designed to provide enhanced bomb disposal capabilities to explosive ordnance disposal (EOD) teams.

EOD ROBOT offers high reliability and excellent maneuverability. The battery-powered EOD robot system features modular design incorporating a wide array of accessories and advanced technical capabilities. EOD ROBOT is specifically designed for explosive ordnance disposal and capable of detecting, jamming, and manipulating IEDs at same time.

NRTC Recoil-less EOD Disrupter & De-Armer



NRTC Recoilless Disrupter can be deployed to the target (UXB, ED or IED) by Mounting it on NRTC EOD ROBOT or Fitment of Disrupter on Multi-position Stand with mounting block. (Provided in accessories) NRTC Recoilless Disrupter combines recoilless operation, with accuracy and ease of deployment. The feature of recoilless operation also makes the equipment user friendly and eliminates the danger of collateral damage from recoil. NRTC recoilless Disrupter can be configured either as a de armor for firing a range of solid projectiles or a Disrupter for firing a range of fluid and frangible projectiles. The system fires projectiles with a mass of up to 290 g (10 oz).

HADAF EOD Robot



HADAF is a highly ruggedized modular robotic platform that supports multiple payloads for different military and tactical operations in the field. HADAF is well suited for surveillance purpose, Multiple cameras mounted on different location guide you 360 degree of its surroundings. when it comes to handling the IEDs, it is highly efficient in detecting, jamming and manipulating them.

HADAF is equipped with 5 DOF robotic arm that can easily manipulate IEDs. HADAF satisfies growing need for a medium-size platform that offers the towing and dragging capability of suspicious vehicles.

NRTC Hotrod IED Disrupter



NRTC HOTROD IED Disrupter is designed to disrupt a wide range of Improvised Explosive Devices. It injects a projectile of water, at high velocity, in order to separate dynamically the key components of an IED. It offers a high probability of avoiding detonation or explosion of the device.

The disruptor is powered by an electrically initiated power cartridge. The injector is fired remotely, from a safe location, utilizing a firing line and electronic exploder. All components of the kit, excepting the optional multi-position stand, are contained in a lightweight, one man portable canvas transit bag.



NRTC Needle IED Disrupter



NRTC Needle disrupter is typically used to disrupt letters or small parcel devices. It results in a high probability of avoiding detonation of the suspect device.

NRTC needle disrupter is a multi-shot device capable of many firings and requires minimum maintenance. The Needle may be deployed using the anti-roll clamp (supplied), the lightweight stand (supplied) or by mounting to a remotely operated Vehicle (NRTC EOD Robot). The Needle disrupter is constructed from non-corroding stainless steel parts. Prior to release each equipment is subjected to an over pressure test and flaw detection. Preparation of the disrupter is straightforward and quick to achieve and may be carried out remotely from the target to enhance operator safety.

NRTC Pigstick IED Disrupter



NRTC PIGSTICK IED Disrupter is designed to disrupt a wide range of Improvised Explosive Devices. It injects a projectile of water, at high velocity, in order to separate dynamically the key components of an IED. It offers a high probability of avoiding detonation or explosion of the device.

The disrupter is powered by an electrically initiated power cartridge. The injector is fired remotely, from a safe location, utilizing a firing line and electronic exploder. All components of the kit, excepting the multi-position stand are contained in a lightweight one man portable canvas transit bag.

EOD Telescopic Manipulator



EOD Telescopic Manipulator is used for explosive ordinance disposal. It allows the operator to pick up and remove a suspect device and keeps the operator at least 3 meters from the suspect device. It will definitely reduce or void the harm to operators without direct connection between operator and the explosive.

It can grab 20 Kgs of Max weight, with Max mechanical arm length of 4.5 meters. Electric control manipulator can be 360° rotating Infrared night-vision camera and LCD monitor, can take Night operation. Very easy to assemble and carry with built-in chargeable battery, which can work steady for 5 hours. LCD screen can work in strong daylight.

NRTC EOD Response Kit



NRTC EOD Response Kit/bag comprises of common and special purpose tools used by EOD technicians/operator in response to incidents involving improvised explosive devices (IEDs) and other explosive hazards.

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NRTC EOD Vehicle



NRTC EOD Vehicle deals with the demanding tasks associated with location, identification and removal of explosive and incendiary devices, especially in the event of suspicion of a dirty bomb. The Vehicle is an integrated solution for bomb disposal and tactical missions. The EOD vehicle is based on fast four wheel drive (4X4) to take immediate action at the crime scene. All conversion work is undertaken by specialist vehicle conversion engineers and coach builders with input from experienced CIED operators.

NRTC EOD Vehicle provides shelves and racks for EOD Robot, hook and line kit, EOD response kit, protective equipment, and disrupters for performing tactical operations. The vehicle can be customized according to the requirements of customers. Accessories like hook and line kit, bomb suit and NRTC EOD Robot can also be provided according to the customer's requirements.

NRTC Hook & Line Kit



NRTC Hook & Line Kit contains a wide range of tools and equipment designed especially for a bomb disposal professional to successfully dispose of hazardous devices.

Hook & Line Kit provides a bomb technician with a wide range of equipment that can be deployed to gain access and remove, manipulate and handle suspect explosive devices contained inside buildings, vehicles, as well as in open areas.

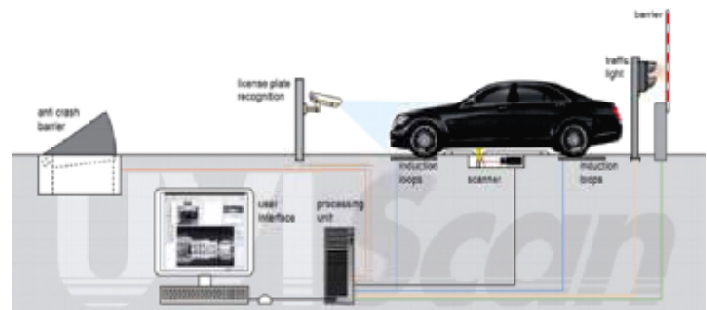
The portable Hook & Line Kit contains components for attaching line, anchoring pulleys and maneuvering dangerous objects to a safe position.

NRTC X-RAY Baggage Scanner 6040



Mobile X-ray inspection system with a tunnel opening of 620 mm (24.4") wide by 418 mm (16.5") high has compact system design with optimized dimensions and weight. It has High performance of Typical penetration 30 mm of steel, wire resolution up to AWG

NRTC Under Vehicle Inspection System (UVIS)



Under Vehicle Inspection System is designed indigenously by NRTC for use in high traffic and security applications. The UVIS is easy to install and provides highly secure under vehicle inspection system for approach entrances to banks, military installations, airports, prisons, docks, embassies, and government offices.

This UVIS solution can scan undersides, monitor and digitally capture high quality image of the entire width of a vehicle undersides. Advanced digital camera imaging and LED illumination provide clear, high-resolution video of the vehicle underside to help detect attached packages, explosives, and other objects.



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NRTC Minhas UAV

NRTC offers Minhas UAV, with long endurance and high payload ability provides various surveillance and military solutions including: Sea rescue, Border patrol, security and observations, Environmental protection, disaster management.

Equipped with different type of payloads, make it the best possible solution to carry out missions while keeping the human operator safe. It can also be sent to areas where human access is beyond the bounds of possibility like nuclear hazardous areas.



Communication Security

Security needs data security, integrity, non-repudiation, authentication, and access control. These solutions are implemented in a very wide range of areas where security and privacy are necessary.

Information Warfare historically as a concept, has tended to be more developed especially under Military doctrine, and tends to favor technology, and tends to extend into the realms of Electronic Warfare, Cyber Warfare, Information Assurance and Computer Network Operations/Attack/Defense. Many nations across the world has included information security as 5th domain of warfare. NRTC is providing security as primary feature in all of its communication products.

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PCoIP Laptop



The world is pacing towards digital technology faster and faster with each day. Electronic media and devices are a major part of our lives. People rely on mobile devices, wireless and wired networks for all bigger and smaller tasks. Confidentiality, integrity and availability also known as CIA are primary and most important concern of an organization. Mobile devices especially laptop computers, together with their data, are becoming an increasingly common threat for being theft. Protection of information stored on the laptop is a challenging task for information security manager.

Secure IP Camera



The Usage of IP camera has increase day by day. The technology is getting easier to use and more people are installing cameras to watch their premises sensitive installation warehouse etc. As with most tech solutions, however, home security video setups are increasingly targeted by hackers and bots. So it is necessary to secure IP camera, NRTC Secure IP Camera have following salient features of secure IP Camera.



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Secure IP Phone



Today, many organizations depend on a number of IP telephony services like voice calls, instant messaging, conferencing, and video conferencing. VoIP has its advantages, including lower network infrastructure costs, scalability and advanced features, such as unified communications and app integrations. But, security of VoIP is a big challenge. NRTC's IP phone is a secure, easy deployment, excellent sound quality with monochrome display supports. It supports advance key exchange mechanism i.e for each call and encrypts the voice calls with SRTP. Secure phone supports SIP over TLS for signalling security.

NRTC's Secure SMS

NRTC's Secure SMS is android based application which protects your communication in transit and on your phone. NRTC's Secure SMS is a full replacement for the default text messaging application. All messages are encrypted locally and messages to other Secure SMS users are encrypted over the air.



Secure Voice Application For Android



NRTC's Secure VoIP phone is an end-to-end VoIP encryption software solution, which turns an android mobile phone into a professional encryption communication device. Now you can protect communication against any interception attempts by business competitors, governmental services.

Secure VoIP enables encrypted full duplex speech conversation and also encrypts text messages communication. It does not require any hardware upgrades on the mobile phone. For the encryption, ZRTP based key exchange and 256 bit AES are used where the key is changed for every session, so highest encryption security is obtained.



Surveillance Solutions

Perimeter Security System

PSS is an intrusion detection system which provides an early warning of a hostile approach of personnel or vehicle towards the protected area. PSS ensures 24/7 surveillance of protected facilities (sensitive perimeters and installations) by displaying zone-wise alarms of intrusion attempts on the protected perimeter. The system creates a virtual fence to secure a perimeter such as military installation & buildings using Active/Passive IR sensors, energized fence which is constantly monitored using Laser Camera and Thermal Imagers.

A virtual fence with multiple zones is created using single or multi-tier detection systems of Active/Passive IR Sensors and/or electric fence. Long range laser cameras and Thermal Imagers are installed at a central location with a complete view of the protected perimeter. Video feeds from the cameras are displayed in the control room. In case of an intrusion attempt in any zone, an audio and visual alarm is generated on a handheld terminal or an alarm display module. This alarm is also received by the installed PTZ laser camera or thermal imager which automatically focuses on the zone where the intrusion occurred, providing a better view for the security operator in control room.



Unattended Ground Sensors System

UGS system is an intrusion detection system which provides an early warning of a hostile approach of personnel or vehicle towards the protected area. The system creates a virtual fence to secure a perimeter such as a military post using PIR sensors, X-band sensors and seismic sensors. Any approach towards this virtual perimeter is detected and transmitted to a monitoring station and exact location of an approach can be identified.



PIR, X-band and seismic sensors are installed at various locations around the perimeter. In an event of approach towards the perimeter, an alarm is generated by the respective sensor which is transmitted to the Gateway. Gateway is connected to a Laptop on which a monitoring software is installed. This alarm is displayed at the software with exact location of the intrusion.

Vehicular Surveillance System (VSS)

Vehicular Surveillance System is designed for mobile surveillance requirements of law enforcing agencies (Police, Border Control Forces etc.) in the field. It is a portable surveillance system which can be used on the go. The system consists of a 4th generation thermal imager with a valid resolution of 324 x 256 (640 x 480) pixels and a 50mm/75mm/100mm/150mm lenses. Combining 4th generation of uncooled focal plane array infrared detector, advanced electronic and optic system, it can penetrate haze, smoke, rain, snow and darkness and offers a perfect image. This thermal imager is combined with a super low illuminating CCD camera with an optical zoom of 36x. This dual surveillance system is mounted on a 6m or 8m fully automated pneumatic mast (hand pump option is also available) and installed on the vehicle. The system is capable of detecting a man-size target at a distance of 1 Km during day and night and this range can be enhanced by selecting lens size of thermal and CCD cameras.



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Covert Surveillance Vehicle System (CSVs)



Covert Surveillance Vehicle System (CSVs) is designed for covert security and surveillance requirements of law enforcing agencies (Police, Intelligence Agencies etc.). The most remarkable features of this system are its mobility and clandestine surveillance. It can quickly and easily relocate to surveillance area of interest. The system incorporates wide-angle HD pinhole cameras and 360-degree dome/PTZ cameras.

It records video feeds on the go without any user intervention and provide post incident video evidence to help in investigation. All surveillance video is recorded inside the vehicle. The user can monitor the video feed inside vehicle and also transmit video through available 3G/4G network to a central control room. The PTZ camera provides an unparalleled view from above in every direction. All video can be recorded to a DVR/DVS with time/date stamp. When it's time to relocate, just drive to your next location without any delay. A Network DVR is also offered which allows live video monitoring to a remote command center via 3G-Dongle / Wireless Video Transmitters.

Different options are available for covert surveillance vehicles. Every option has its own mission and objective depending on user requirement.

Vehicular Tracking System



NRTC NVT-630 is a vehicular tracker used to track or monitor the location of the vehicle. The tracking system consists of GPS device that brings together GPS and GSM/GPRS/3G technology using tracking software. GPS tracker with 3g network supports wider range of coverage; it can work well in remote and weak signal areas.



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Power Solutions

Looking into the growing needs of alternate energy solutions, NRTC has embarked upon provisioning of solar power based solutions to various potential customers in and outside Pakistan. NRTC has the capability to provide solar power solutions of different scale including Agriculture, Industrial, Home/Office, Field/remote areas, etc. NRTC can provide custom made Solar panels and chargers.

Agriculture Solutions



Industrial Solutions



Home/Office Solutions



Solar Panels



Hybrid Solar Inverter

TYN series Hybrid solar inverter is an intelligent multi functional power supply. Solar system inside consists of solar MPPT controller, charger, rectifier, inverter, static transfer switch, main control circuit and display alarm circuit. It can according to users different requirement setup different inverter work mode.



Wind Power Generation



RADAR Power Supply for Radar Vehicle

The front end of the power module of the radar vehicle is upgraded to a high frequency PWM+PFC circuit, which can improve the input power factor and reduce the harmonic current and reduce the reactive power loss of the generator AC-DC. The DC-AC-DC switch is transformed into a LLC circuit, and the switching loss is reduced, the switching current waveform is sine wave, and the switching interference is reduced. The output of the DC link increases storage when the level load changes, Nenghuan reservoir discharge, to reduce the impact of input generator. Improve the stability of the system, increase the reliability of the power supply module.



Marine UPS Uninterrupted Power Supply



It has True double-conversion and its microprocessor control optimizes reliability. Has output power factor correction with wide input voltage range (110-300VAC). Converter mode availability with ECO mode for energy saving only available for 1-3KVA models. This UPS is Generator compatible and also has adjustable charging current via LCD or software (1A-6A).

EPS Emergency Power Supply



Emergency Supplies are designed by adopting fully digital control technology with capability to intelligently detect and monitor its function. It has six generation low dropout IGBT drive inverter. No voltage dry contact and RS232/485 monitor. Input and output are properly isolated. Fully isolate between DC screen and main power. Adopt electric power standard screen and cabinet design. Have over voltage, undervoltage, over current and short circuit Protective function.

Dual Battery Charger (DBC-2590)



Dual Battery Charger is a charger module indigenously designed to charge 02x Li-Ion batteries BB-2590 or equivalent simultaneously. The charger is mounted in an environmentally resistant pelican case, provides a reliable and consistent charging solution. It has the provision of AC as well as DC power source and has been designed keeping in view the requirement of a field soldier. This charger is fully customized and can be castrated as per the customer requirements.

Universal Solar Battery Charger (USBC-243)



Universal Solar Battery Charger is a smart charger module, indigenously designed and developed to charge multiple types of batteries which are used for various communication equipment with different chemistries namely Ni-Cd, Ni-MH and Li-Ion. This charger is specifically designed for harsh environment with small size and light weight to insure mobility in field area. This solution is fully customized and can be castrated as per customer requirements.

Auxiliary Power Unit (APU)



To provide uninterrupted power supply in communication vehicles for continuous operation of WS and communication equipment, a 24/28 VDC system is necessary to be installed in all communication vehicles. The auxiliary power system consists of an Add-on alternator 24VDC/70A as dedicated alternator, pulleys, customized bracket, additional wiring (isolated from vehicle wiring), filter and optional cabin panel volt-meter.

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Ground Surveillance Radar NB-1

NB-1 is solution for border security and ground surveillance. A user-friendly, versatile and light weight radar, with compact size and high quality performance, makes it a preferred choice for various types of military units and their respective operations.

Has capability of remote operation with IP communication with Long detection range. Uses intelligent ruling element in sensor system. Integration with camera subsystem along with Integration with C4i system, local operation, Key element of large border security system. Also has Dual Installation modes; stationary and portable.

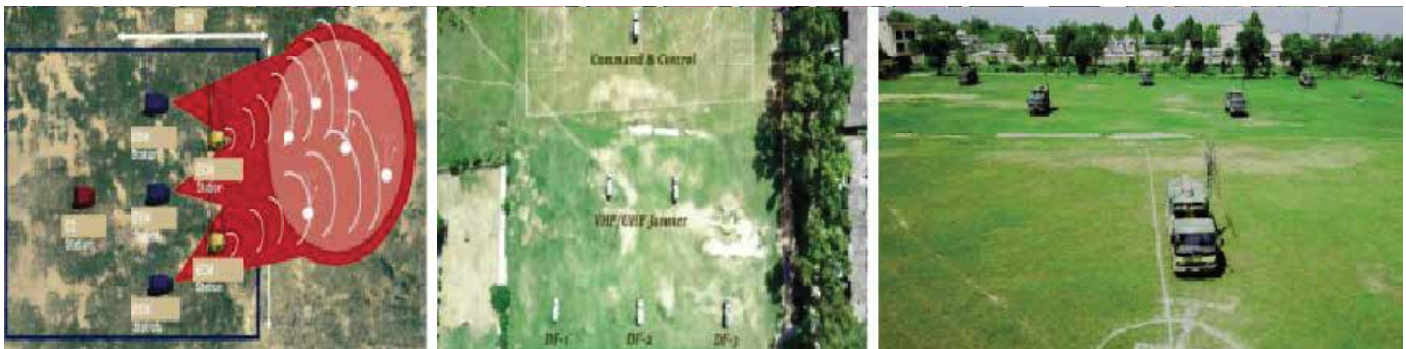


Electronic Warfare System

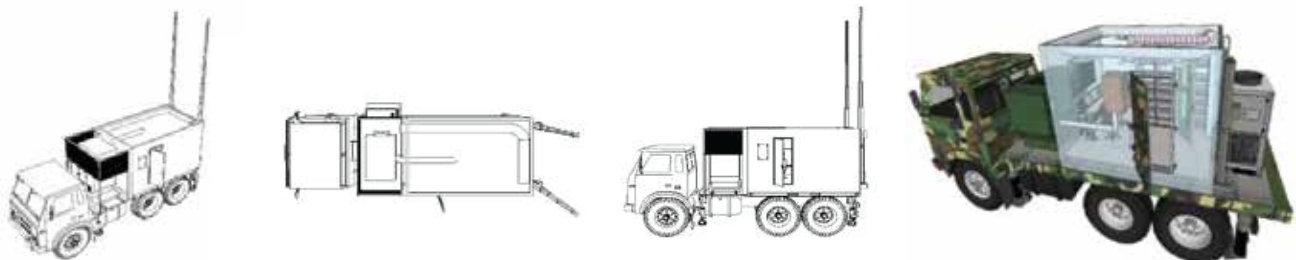
Communication Intelligence (COMINT) Equipment

(Jamming, Direction Finding, Command & Control Station)

The Communication Intelligence Equipment comprises of the NRTC Electronic Warfare System (NEWS). NEWS is used to selectively intercept, analyze and jam the most advanced communications systems in the VHF/UHF range. Includes VHF/UHF Communication Jamming System, VHF/UHF Direction Finding (DF) System and Command & Control (C2) System.



V/UHF Hybrid Electronic Warfare System



NRTC offers V/UHF hybrid EW system comprising of Communication Jamming Subsystem, Direction Finding subsystem and Command Control console in one shelter. Hybrid system is tactically proven system with ES and ECM state of art capabilities.



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VHF/UHF Communication Jammer (30 MHz-6 GHz Frequency Range)



VHF/UHF Communication Jammer System has capability of Monitoring, Detecting and as well as Jamming advanced communication. It has wide band frequency range 30Mhz to 6GHz.

Its bandwidth is up to 300MHz at real time. Can very quickly detect and jam signals. Has very minimum round trip 500us, also with high Power Amplifier of up to 1kW. Comes with very user friendly interactive user interface for equipment control.

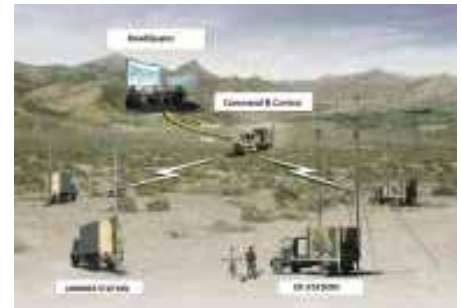
Direction Finding System (30 MHz-6 GHz Frequency Range)



Direction Finding is highly accurate with high level of sensitivity and immunity to reflection even in dense RF environment. The large instantaneous bandwidth of 300MHz allows it to scan state of the art radio agile signals in real-time. Software defined platform enables the system to be integrated with ESM and ECM systems seamlessly. Wide frequency range allows the system to acquire and locate signals from up to 6GHz.

Command & Control Station (Remote Station Range of 25Km)

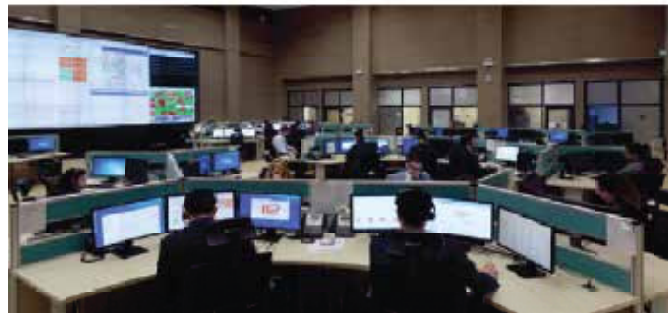
The Command & Control Station (C2) is equipped with Hardware and Software for conducting effective mission planning. C2 system is capable of creating Command Order of Battle (COB), Tactical Situation Picture (TSP) and Mission Planning for battle. It can remotely control deployed subsystems of EW through wired or W-LAN links.



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Applications/Functions



NRTC Base Station

