



SatPal™
The Ultimate
Satellite Installation
Management Tool



Manage & control the quality of your installations

Inverto's SatPal™ is an exciting new development assisting installers to guarantee the quality of their antenna installations, manage their installations and generate full audit details of them – all using the intuitive and easy to use SatPal™ App (iOS and Android supported).

With SatPal™, the installer's smartphone becomes a powerful installation tool which is not only able to display the signal level and quality but to store the installation details including the location of the installation (via GPS), the list and details of the equipment installed and capture photos of the installation for future reference. A comprehensive report is then generated and sent out to a dedicated email address which the user sets up in the App. If the installer does not have email access at the time of the installation then the report will be emailed as soon as he is back on-line. The report gives full traceability of the equipment used, the quality of the installation and the signal performance in one simple report.

The SatPal™ solution is ideal for both operators who want to be able to better monitor and record the data of their installations or by installer or service/maintenance companies who wants a record of their installs.

The SatPal™ also allows the installer to configure (if required by the operator), diagnose and troubleshoot installation issues of any Inverto's Unicable II™ LNB or Multiswitch installation. It allows monitoring of operational parameters of Unicable II™ products such as the spectrum of the received satellite signal, retrieving diagnostic data, reading, editing and updating configuration files as well as the unit's firmware and more.

SatPal™ was designed as a tool for the installer to use in the field. The benefit of being able to support the initial installation through the smartphone App which can then generate a detailed installation report makes the product unique. The smartphone App allows an intuitive and easy use of the Unicable II™ diagnostic and programming features.

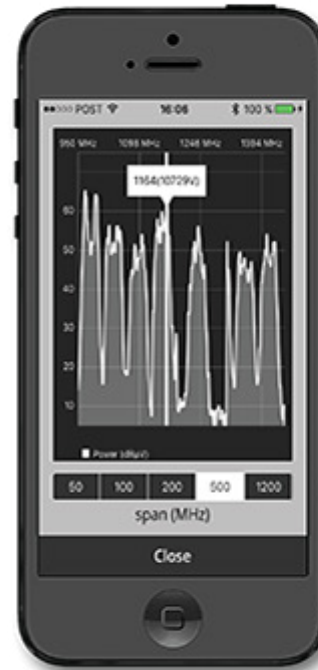
The SatPal™ small form factor and the options to power it via a standard power pack or from the installed receiver allows the user to have an enormously powerful installation tool at a truly affordable price.

The SatPal™ Solution

Controlling the quality of field installations



SatPal™ Controller



 SatPal™ app
for iOS & Android

The SatPal™ Controller



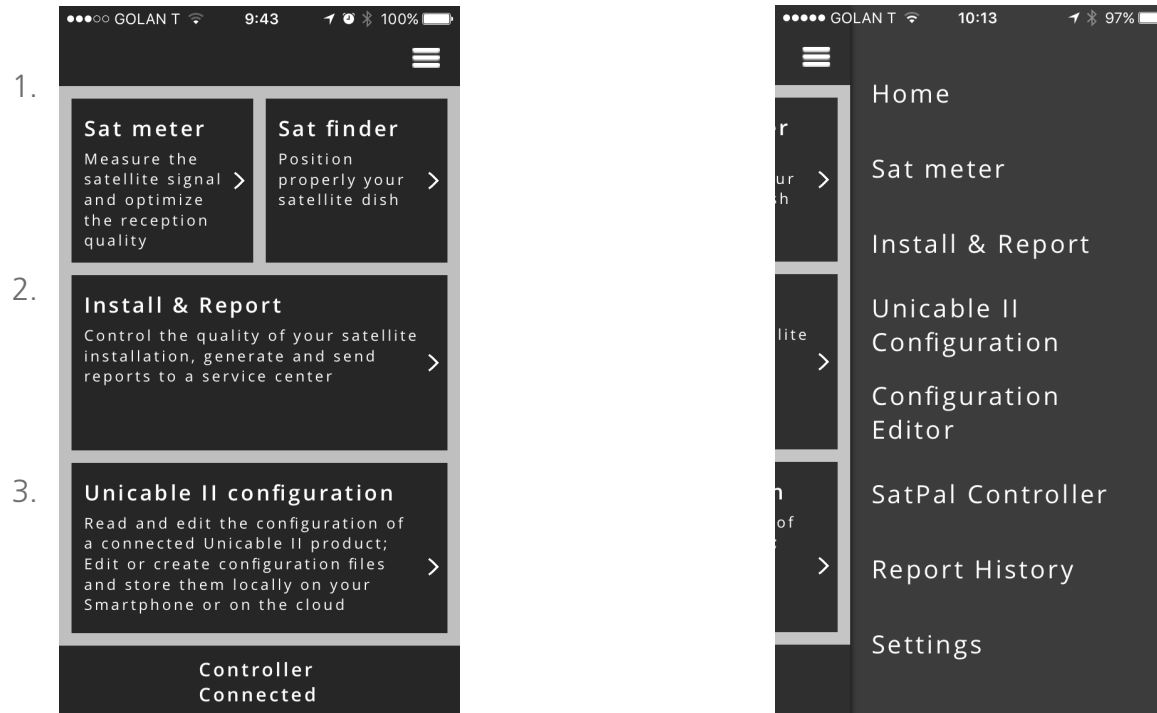
With neck strap




With power pack



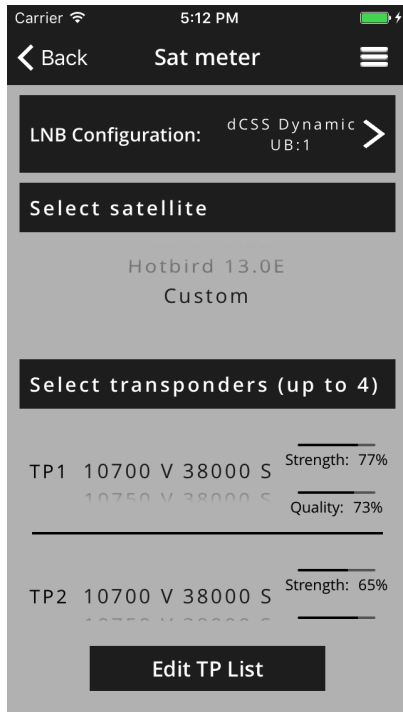
The SatPal™ features



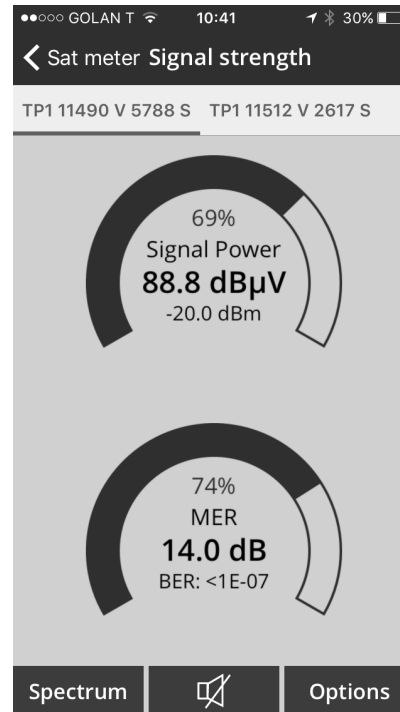
1. Sat Meter – Satellite meter for dish alignment and showing of signal level and quality.
2. Sat finder to ease the dish and LNB alignment .
3. Install & Report – A friendly wizard helping the user to align the dish and to email out an audit report with attached photographs of the installation.
4. Unicable II Configuration – Allows the user to configure their Unicable II products plus offers a level of diagnostic tools.

 The quick access menu allows user to access all main features easily from any screen in the app.

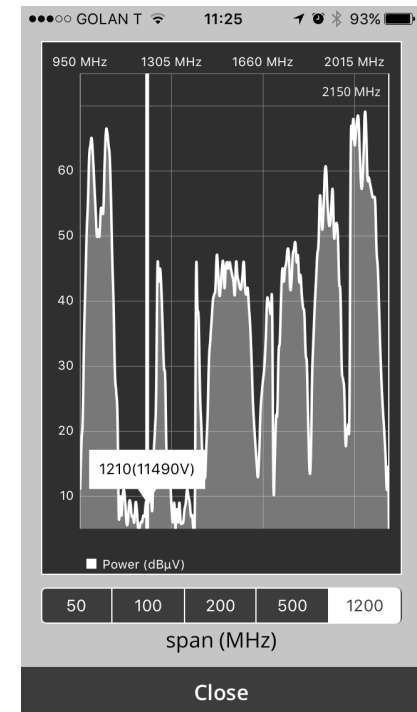
Sat Meter



- Easy selection of satellite.
- Automatic selection of 4 transponders or self selection by scroll wheel.

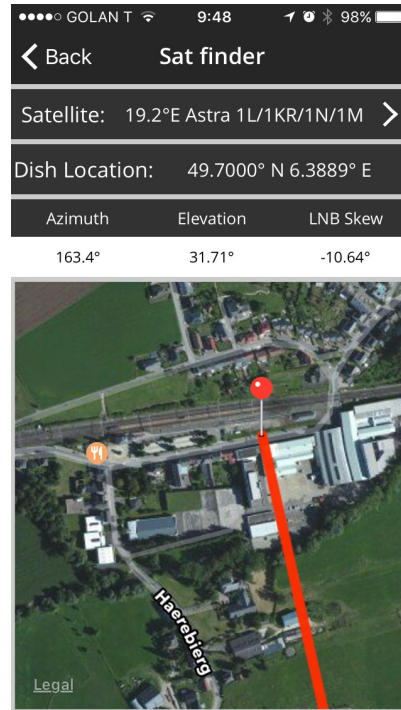


- Signal level and Quality is displayed.



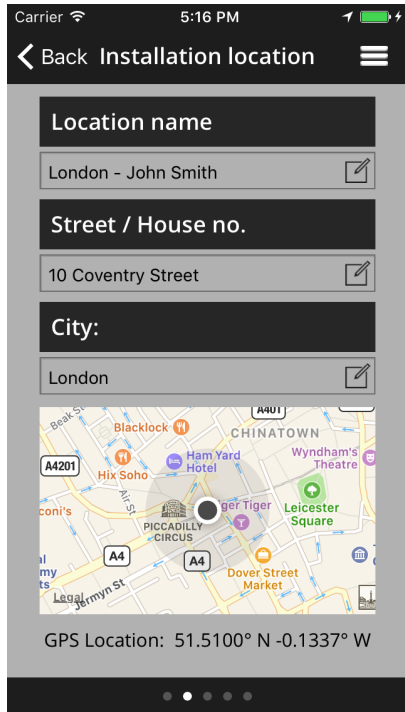
- Real time spectrum analysis over entire IF band with indication of chosen transponder
- Span can be chosen

Sat Finder

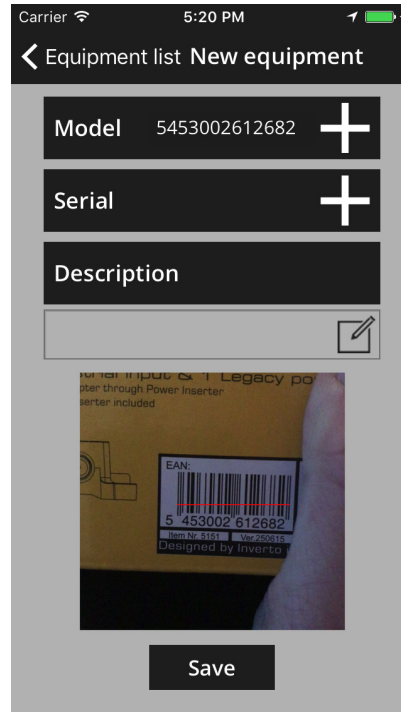


- The dish Azimuth + Elevation as well as the LNB skew angle are automatically calculated based on GPS coordinates.

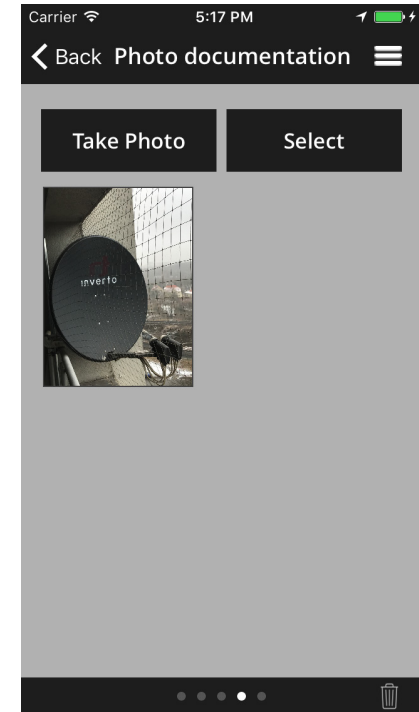
Install & Report



- Detailed address location can be set.
- GPS Co-ordination set.

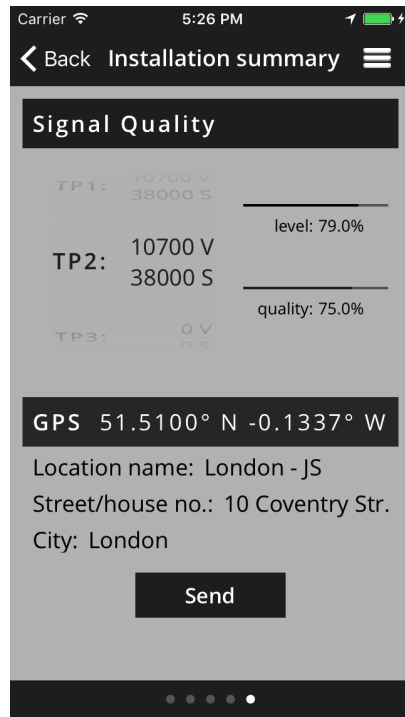


- Smartphone camera acts as a scanner and allows the equipment information to be added to the audit report.



- Installer uses their smart-phone to capture the installation and have these recorded as part of the audit report.

Installation summary




- User sees an installation summary which can be e-mailed as an audit report.

Installation Report

Sent: 23-01-2017
At: 09:51

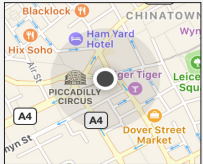
Installer
Name: Marcin Szkudlarski
e-mail: msz@inverto.tv
Mobile: +352 661 144 565
ID: 4D83F935-7F8A-4919-87AF-3F94A51DBFB3



TP Signal Parameters

10729V22000	Strength 83%	Quality 68%
10758V22000	Strength 92%	Quality 55%
112012V22000	Strength 88%	Quality 55%
12031 V27500 S2	Strength 79%	Quality 64%


GPS Location
Location name: London - John Smith
Street house/no.: 10 Coventry Street
City: London
Coordinates: 51.5100° N -0.1337° W



Equipment

No.	Description	Model #	Serial #
1	LNB	IDLR-SINL20-CLASC-OPP	S/N P1545006489
2	Antenna 60cm	IDLB-STCF60-KULGO-LPS	
3	Cable RG-6 -	IDLB-CRG601-TXXXX-XXR	

Photo documentation:



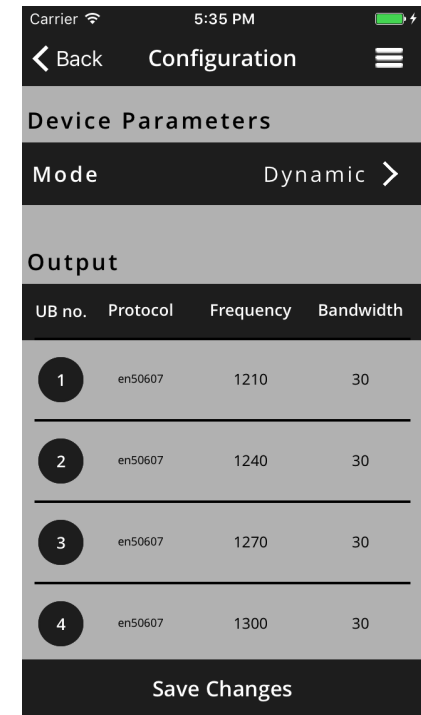
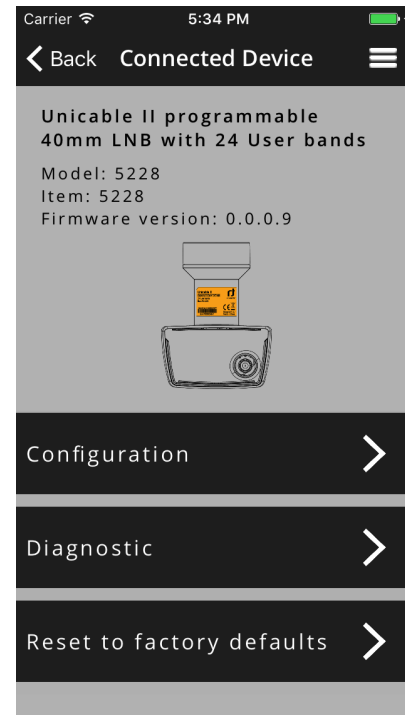
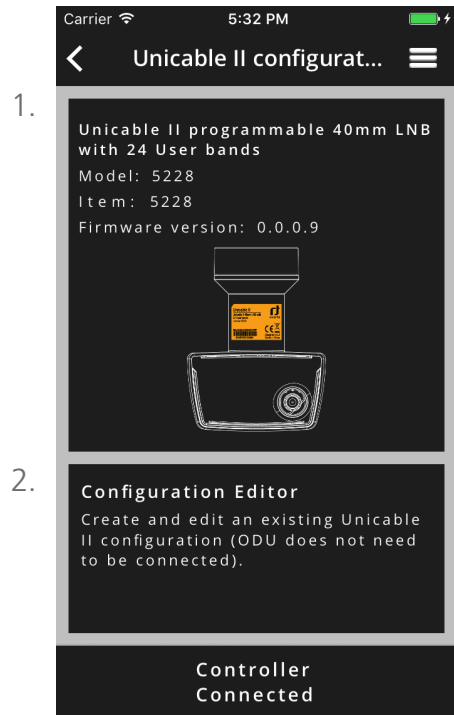
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This report was generated by the SatPal™ app

Unicable II™ Configuration

Configure Unicable II™ LNBS or Multiswitches*

& Create new or edit existing Unicable II™ configurations



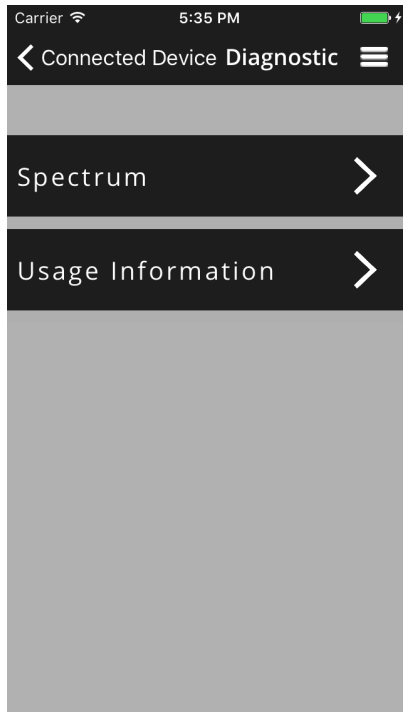
1. Unicable II programming tool.
2. Configuration Editor.

- Configuration - User is able to see the configuration of each of the user bands in use.
- Diagnostics - User is able to see critical diagnostic perimeters of the Unicable II product.
- Reset - User is able to reset the unit to factory settings.

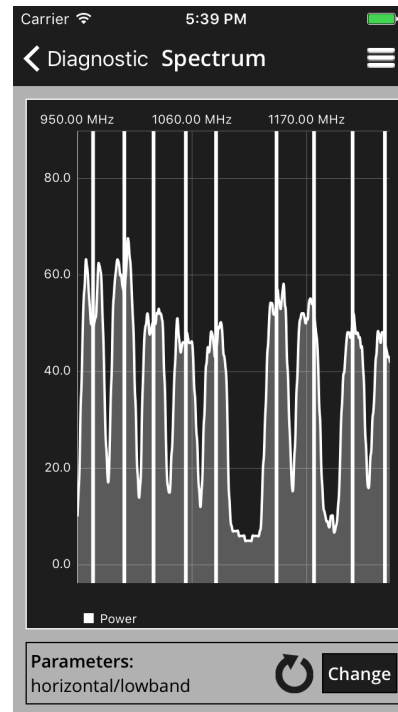
- Mode - allows the user to set between Static & Dynamic modes.

* Support for Inverto Unicable II™ LNBS & Multiswitches only

Unicable II™ Diagnostic tools



- User is able to scroll through the spectrum of the user bands in use.
- Enables users to see the temperature of the Unicable II device, user bands currently in operation and the time the unit has been in operation.



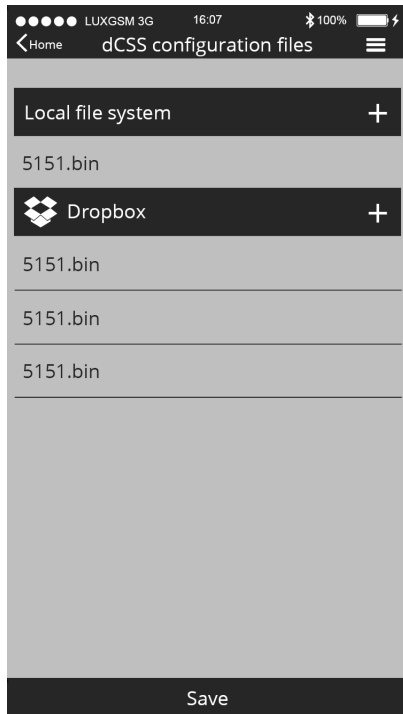
- Offers the ability to scroll through and view all active user bands in operation.



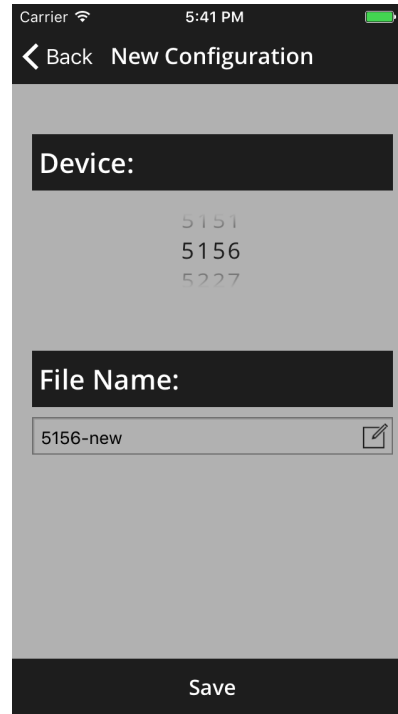
- Offers the ability to view device temperature, user bands in operation and time in use.

Configuration Editor

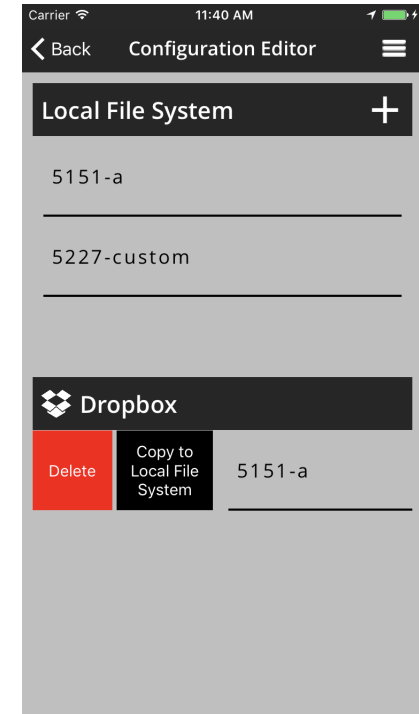
Create new or edit existing Unicable II configurations



- Shows stored configuration files available to the user (held either on the smart-phone or in the cloud).



- User is able to select desired hardware and create new configuration file or edit an existing file whilst off line.



- User is able to exchange configuration files through the cloud.

Key features of the solution

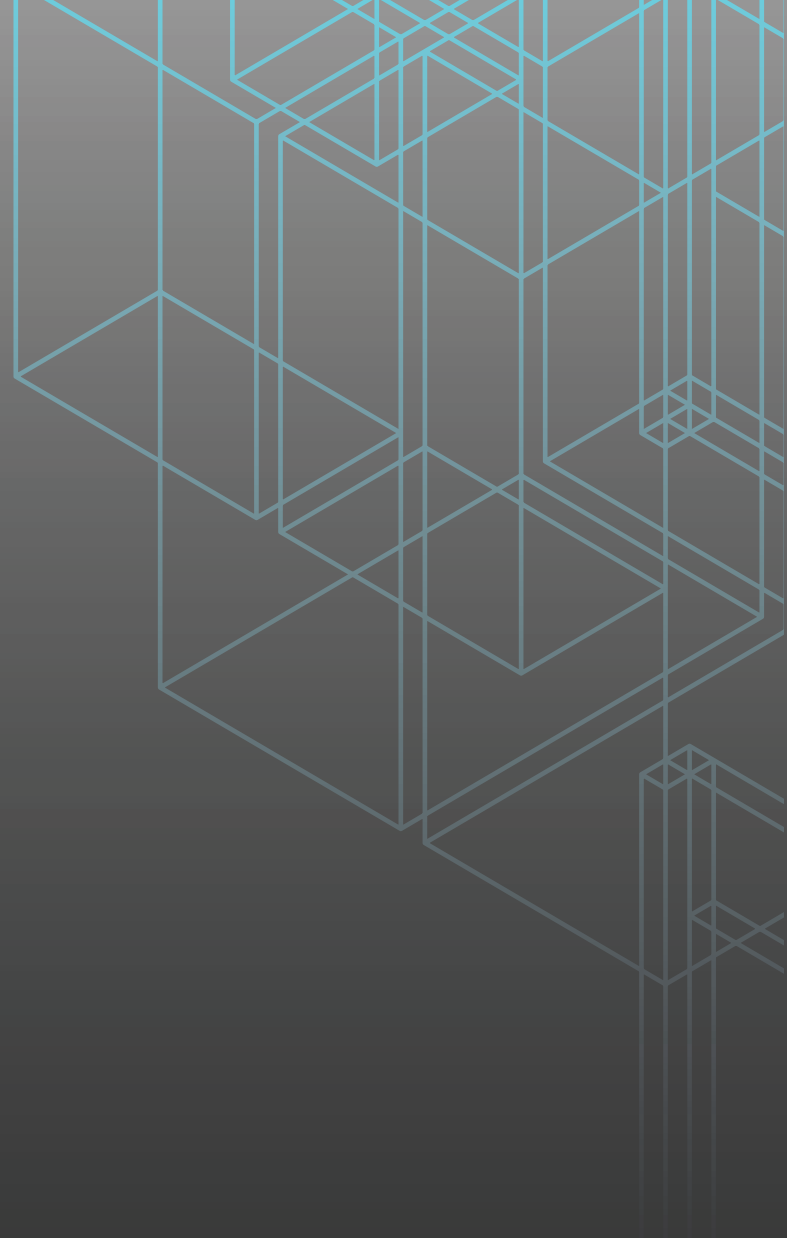
- SatPal™ iOS and Android apps + SatPal™ Controller
- Sat Finder and dish alignment tool with location (GPS)-based guidance
- Customized satellite and transponder lists
- Satellite meter with real-time spectrum analyzer measuring MER, output level, C/N, Constellation diagrams - working with Universal or Unicable ODUs.
- Installation report generator including location, installer's details, signal measurements, inventory and photos
- Unicable II™ programmer and diagnosis tool
- Powered by power bank, STB or ac/dc adapter
- Lightweight, mobile solution

The SatPal™ benefits & advantages

Reduces cost of service for DTH operators

Increases productivity of service teams & independent installers:

- Simplifies the dish installation process
- Control the installation quality - ensure the installation is right from moment one
- Provide full traceability of field installations and inventory - who / when / where / what / how well
- Simplified installation audit
- Effective update tool for Static Unicable II™ MDU installations
- Affordable - replacing expensive professional meters



For purpose of brevity, some product descriptions in this sheet remain at platform level and may not be referred to as detailed datasheets of the products. Inverto Digital Labs reserves the right to amend, omit or add products, product-lines, and / or features without notice. As product specifications may change without notice, always contact Inverto to obtain the latest product specification sheets.

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