KWS | ELECTRONIC TEST EQUIPMENT GMBH

M+ and View X series

Fiber optic solutions: Top-class splicing technology

INNO™
INSTRUMENT

EXTENDED
3
YEARS
WARRANTY

Pressure heater technology:
Reducing heating time to only
9 seconds

Improved lighting:
For better visibility in dark
environment

Tool-free field-replaceable
electrodes:
Electrodes easy to replace

Higher energy efficiency:
Increased number of cycles, even
with the same battery capacity

Versatile fiber holder:
Switch between Standard
and Loose-Tube fibers

5 inch touch screen with smart GUI
Highest magnification: × 520
Double tap to zoom in & out

— Fiber …
signal transmission for tomorrow.

The demand for more and more bandwidth in modern data transmission is constantly increasing. However, the technology used must be manageable for technicians on site. For this reason, in addition to the classical RF technology via coaxial lines, the use of optical transmission via fiber optic lines has become indispensable.

The share of fiber optics in signal distribution is growing as rapidly as the applications that require it: Home office and distance learning, video calling and web conferencing, home theater and music streaming, server connections and, of course, surfing when everyone is on the Internet at the same time.

That is why KWS distributes the complete program of the leading manufacturer INNO Instrument from South Korea. INNO develops and manufactures splicing equipment and ODTRs designed for optimal quality and easy handling.

With this cooperation, KWS is further positioning itself as a competent partner for measurement technology solutions in the fiber optics sector as well as in all technological sectors.

This very successful cooperation is based on our common requirements for uncompromising quality and solid durability. INNO's products are just as high quality and robust as KWS's antenna measurement receivers. In cooperation with KWS, INNO Instrument offers a 3-year warranty on the splicers of the View series as standard.

Now we jointly launched the new M+ and View X product line. Many small but important subtleties have been improved in all devices—based on user experience and feedback. It is the details that make these product innovations the new standard in the telecommunications industry. One of the highlights is the equipment with an IoT module, which allows the device to be connected to the View Pro Manager.

One of the key added values of the M+ and View X product line is its integration with the free View Pro Manager (Cloud Management System), which enables a whole new level of remote management. Highlights:
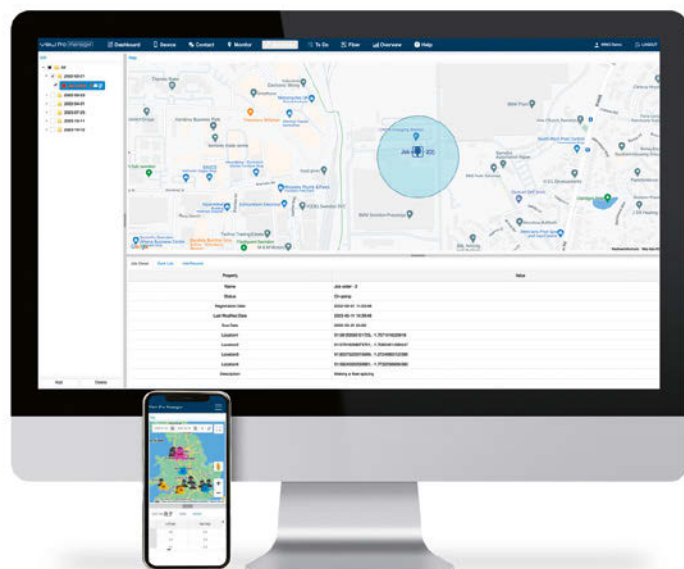
Real-time **tracking function** shows where the splicing device is at any given moment—forgetfulness and theft are finally a thing of the past. And pop-up messages quickly inform about the status of the device.

With **device management**, you can keep an eye on an electrode warning or a calibration to be performed, for example, at any time. And software updates can even be imported from the cloud.

All **reports and data** are exchanged online and are therefore immediately available—even if the device remains on a remote construction site. A physical readout via USB is still optionally possible.

Work/job management automatically archives the work progress of each individual device. Workforce planning has never been easier and efficiency gains more immediate.

All functions are controlled or accessed from the dashboard on the PC or mobile phone connected to the INNO iCloud server. The splicers themselves, in turn, communicate with the server via cellular 4G / 5G. All it takes is a low-cost IoT SIM card and the splicer is already on the web. And all information is available as quickly as possible and always up to date.

All View X splicers are equipped with the highest optical resolution on the market. 520 ×! This makes the calculation of the attenuation after the splicing process incomparably accurate. The high-resolution and extremely robust touch screen, which is protected from damage by tempered glass, with a sophisticated user interface allows very intuitive operation—even with video tutorials.

Complies with the requirements of Telekom "ZTV-TKNetz 48".

Model	M7+	M9+
Splicing method (Alignment)	Clad alignment	Core alignment
Dimensions in mm	124 H × 144 B × 131 T	125 H × 144 B × 136 T
Weight	1.49 kg	1.63 kg
Warranty	3 years	3 years
Display	4.3" Color LCD display, Full Touch Screen 90° bi-directional view	4.3" Color LCD display, Full Touch Screen 90° bi-directional view
Fiber display (magnification)	× 320	× 320
Splice time	Quick mode: 4 seconds	Quick mode: 4 seconds
Heating time	average 13 Seconds (Slim 60 mm)	average 13 Seconds (Slim 60 mm)
Splice programs	maximal 128 modes	maximal 128 modes
Heating programs	maximal 32 modes	maximal 32 modes
Typical splice loss	SM: 0.03 dB / MM: 0.01 dB / DS: 0.05 dB / NZDS: 0.05 dB / G.657: 0.03 dB	SM: 0.02 dB / MM: 0.01 dB / DS: 0.03 dB / NZDS: 0.03 dB / G.657: 0.02 dB
Battery	3,000 mAh	3,000 mAh
Splicing operations with a fully charged battery	typical 200 cycles (splicing + heating)	typical 200 cycles (splicing + heating)
Data storage	Last 20,000 (values) or 10,000 (images) results	Last 20,000 (values) or 10,000 (images) results
Results check	✓	✓
Data output	Cloud (View Pro Manager) and USB-C	Cloud (View Pro Manager) and USB-C
Water resistance	✓ IPX2 Rain resistance: 10 mm/h for 10 minutes	✓ IPX2 Rain resistance: 10 mm/h for 10 minutes
Shock resistance	✓ 76 cm for bottom surface drop	✓ 76 cm for bottom surface drop
Dust resistance	✓ IP5X Exposure to dust: 0.1 to 500 µm diameter aluminium silicate	✓ IP5X Exposure to dust: 0.1 to 500 µm diameter aluminium silicate

Complies with the requirements of Telekom "ZTV-TKNetz 48".

For INNO products, we provide the same competent support and troubleshooting as for our antenna measuring receivers. We also offer training on the use of the instruments and on the fiber optic technology itself.

As a certified service center for INNO Instrument, repairs or maintenance are performed directly at KWS and are carried out quickly and reliably as usual. And if a loaner instrument is needed, we have access to a large pool of equipment.

For an overview of other INNO Instrument products such as OTDRs and a wide range of professional tools, see our website **www.kws-electronic.com**.

View 3X	View 8X
Clad alignment	Core alignment
151 H × 149 B × 177 T	162 H × 143 B × 158 T
2.19 kg	2.68 kg
3 years	3 years
5" Color LCD display, Full Touch Screen	5" Color LCD display, Full Touch Screen
90° bi-directional view	90° bi-directional view
× 360 and × 520	× 360 and × 520
Quick mode: 4 seconds	Quick mode: 4 seconds
average 13 Seconds (Slim 60 mm)	average 13 Seconds (Slim 60 mm)
maximal 128 modes	maximal 128 modes
maximal 32 modes	maximal 32 modes
SM: 0.03 dB / MM: 0.01 dB / DS: 0.05 dB / NZDS: 0.05 dB / G.657: 0.03 dB	SM: 0.01 dB / MM: 0.01 dB / DS: 0.03 dB / NZDS: 0.03 dB / G.657: 0.01 dB
5,200 mAh	9,000 mAh
typical 300 cycles (splicing + heating)	typical 500 cycles (splicing + heating)
Last 20,000 (values) or 10,000 (images) results	Last 20,000 (values) or 10,000 (images) results
✓	✓
Cloud (View Pro Manager) and USB-C	Cloud (View Pro Manager) and USB-C
✓ IPX2 Rain resistance: 10 mm/h for 10 minutes	✓ IPX2 Rain resistance: 10 mm/h for 10 minutes
✓ 76 cm for bottom surface drop	✓ 76 cm for bottom surface drop
✓ IP5X Exposure to dust: 0.1 to 500 µm diameter aluminium silicate	✓ IP5X Exposure to dust: 0.1 to 500 µm diameter aluminium silicate

All devices are delivered in a practical carrying case with shoulder strap as well as cleaver, power supply and battery, power and USB cable and spare electrode.

KWS also offers accessories, consumables and other products for fiber optics, either directly or in our webshop.

All solutions from one source.

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The information contained in this catalogue is subject to change without notice.

Our webshop
www.kws-electronic.shop

Our website
www.kws-electronic.com