



Mentor Visual iQ Pratt and Whitney F100 Video Borescope kits

Waygate Technologies Video Borescope kits configured for Pratt and Whitney F100 series engines single-probe MViQ kit

Kit applicability

The compact, dual-probe kit contains a Waygate Technologies Touch model of the Mentor Visual IQ video borescopes and one 6.2mm x 3.5m probe with 1.4mm internal working channel.

The kit, with its included optical tip adapters and included accessories is configured to meet the P&W F100 engine borescope inspection tooling requirements. See the technical description summary on reverse side of this document for additional details.

Waygate Technologies offers no opinion and makes no conclusions as to whether these Waygate Technologies video borescopes meet the borescope inspection tooling requirements.

Kit part number

MVIQ6235R-F100 (F100 kit with wi-fi radio)

MVIQ6235N-F100 (F100 kit without wi-fi radio)





Technical description

| Part number | MVIQ6235R-F100 | MVIQ6235N-F100 |
|-------------------------------|--|----------------|
| Wifi and bluetooth radios | Included | Not included |
| Included standard accessories | Dual-probe capable wheeled shipping case containing, battery charger and power cord, optical tip case, 16GB USB thumb drive with user manual and an accessory pouch. | |
| 6.2 mm probe | 6.2 mm x 3.5 m Probe with 1.4 mm internal working channel | |
| Shipping box dimensions | 22" wide x 13" deep x 25" tall | |
| System weight in case | 42.5 lbs | |
| User interface | Menu-driven and soft button operation; menu navigation using either touchscreen or joystick | |
| Ergonomic design | Unitized hand-held design with interchangeable QuickChange probes | |
| Illumination | White LED | |
| Measurement | Real3D Stereo with point cloud visualization | |
| Articulation | 360° All-Way® tip articulation, menu access, and navigation | |
| Internal memory | 32 GB | |
| Zoom | 5X continuous digital zoom | |
| Battery | 2-hr Li ion battery pack, charge while attached or detached from handset | |
| Display | 6.5" XGA LCD, daylight readable with touchscreen | |
| I/o ports | (2) USB 3.0 "A" port, (1) USB 3.0 client micro 'B' port | |
| Video output | DisplayPort digital video output | |
| Still image formats | Bitmap (.BMP) and JPEG (JPG) | |
| Video format | MPEG4 AVC/H.264 (.MP4 file) | |
| IP rating | IP65 (assembled), IP55 (disassembled) | |
| Additional accessories | 6.2 mm x 3.5 mm probe working channel tool kit, with tools shown below, additional battery, probe mounting clamp, neck strap, and 6", 12", and 16" rigid sleeves | |
| Military standard compliance | MIL-STD-810G 501.5, 502.5, 506.5, 507.5, 509.5, 510.5, 511.5, 514.6, 516.6, 521.3 MIL-STD-461G electromagnetic compatibility with RE102, and RS103 – above deck | |
| Agency compliance | Group 1 Class A; EN61326-1, IEC CB Scheme, UL/EN/CSA-C22.2 61010-1, IEC 62133, UN/DOT T1-T8, EU RoHS 2, EU RED Directive, ISTA 2G | |

Optical tip set

| Diameter | Part number | Optical viewing direction, DOF and tip color code | FOV (degrees) | DOF (inches) |
|----------|--------------|---|---------------|--------------|
| 6.2mm | PXT62120FN | Forward view, near DOF, black | 120 | 0.16–7.48 |
| 6.2mm | PXT62120FF | Forward view, far DOF, yellow | 120 | 0.98–inf |
| 6.2mm | PXT62120SN | Side view, near DOF, blue | 120 | 0.2–inf |
| 6.2mm | PXT6280SF | Side view, far DOF, green | 80 | 0.71–inf |
| 6.2mm | PXTM626060FG | Forward view, near DOF, black | 60/60 | 0.16–3.15 |
| 6.2mm | PXTM626060SG | Side view, near DOF, blue | 60/60 | 0.16–3.15 |

Working channel tools

| Basket | Snare | Grasper | Hook |
|---|---|--|---|
|  |  |  |  |
| WT-141435K | WT-141435S | WT-141435P | WT-141435HC + WT-H |