



Mentor Visual iQ Pratt and Whitney F135 Video Borescope kits

**Waygate Technologies
Video Borescope kits
configured for Pratt
and Whitney F135 series
engines in a compact
dual-probe wheeled case**

Kit applicability

This compact, dual-probe video kit contains a Waygate Technologies Touch model of the Mentor Visual iQ (MVIQ) VideoProbe™ with two probes. This kit contains a Ø4.0mm x 3.5m probe and a Ø6.2mm x 3.5m probe with a Ø1.4mm internal working channel.

The kit, with its included optical tip adapters and included accessories, is configured to meet the P&W F135 engine borescope inspection tooling requirements as described in P&W F135 engine maintenance support equipment specifications. See the Technical Description summary of this kit for additional details.

Waygate Technologies offers no opinion and makes no conclusions as to whether these Waygate Technologies video boscopes meet the requirements of P&W F135 support equipment specifications.

Kit part number

MVIQ40356235R-F135 (F135 kit with wi-fi radio)

MVIQ40356235N-F135 (F135 kit without wi-fi radio)





Technical description

Part number	MVIQ40356235R-F135	MVIQ40356235N-F135
Wi-fi and bluetooth radios	Included	Not included
Included standard accessories	Dual-probe wheeled shipping case containing battery charger and power cord, optical tip cases, 16GB USB thumb drive with user manual and an accessory pouch.	
4.0 mm probe	4.0 mm x 3.5 m Probe	
6.2 mm probe	6.2 mm x 3.5 m Probe with 1.4mm internal working channel	
Shipping box dimensions	22" wide x 13" deep x 25" tall	
System weight in case	44 lbs.	
User interface	Menu-driven and soft button operation; menu navigation using touchscreen or joystick	
Ergonomic design	Unitized hand-held design with interchangeable QuickChange probes	
Illumination	White LED	
Measurement	Real3D Stereo on 6.2mm, Comparison measurement on 4.0 mm and 6.2 mm	
Articulation	360° All-Way® tip articulation	
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 format)	
IP rating	IP65 (assembled), IP55 (disassembled)	
Additional accessories	Working channel tool kit, with tools show below, additional battery, probe mounting clamp, neck strap	
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	PXT6240FF-headguard	Forward view, far DOF, silver ring	40	3.94 - inf
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
4.0mm	T4080FF-headguard	Forward view, far DOF, silver ring	80	1.38 - inf
4.0mm	T40115FN	Forward view, near DOF, black	120	0.16-inf
4.0mm	T40115SN	Side view, near DOF, red	120	0.04-1.18

Working channel tools

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