

ALL-IN-ONE WIRELESS ENDOSCOPE SYSTEM

FreeView

Camera, rigid endoscope and light source unified in a single handheld instrument — streaming live to an Android display over Wi-Fi. Two views, zero cables.

• Wireless streaming

• Dual-view 0° / 30°

• 14 system configurations

• Android platform



FV-D30-18 DUAL-VIEW SYSTEM SHOWN · 4 MM · 18 CM

1280 × 720
IMAGE RESOLUTION

3500 mAh
LITHIUM-POLYMER CELL

~8 sec
POWER-ON TO WI-FI

14
SYSTEM CONFIGURATIONS

01 SYSTEM OVERVIEW

One instrument in place of a tower.

FreeView replaces the camera control unit, external light source, fibre-optic light cable and cart with a single wireless handpiece. Setup is reduced to two physical connections and one wireless link.

FreeView combines the camera, rigid endoscope and light source into a single handheld device, streaming live imaging wirelessly to an Android touchscreen. Physicians are ready in seconds, with up to four hours of continuous battery life.

Available in a Dual-View configuration, FreeView allows the physician to switch between 0° and 30° visualization at the push of a button, without changing scopes — a faster, more efficient workflow and a better visualization experience from start to finish.

“It’s easier than any nasal endoscopy equipment that I’ve ever used.”

Marc Cohen, M.D.

Managing Partner, ENT Group of Los Angeles
Vice Chief of Staff, Providence Cedars-Sinai Tarzana Medical Center



The complete system: wireless handpiece, Android display and the single Wi-Fi link between them.

CONVENTIONAL ENT TOWER

7 discrete units, cabled

Mobile cart / tower	
Camera control unit	
Xenon or LED light source	
Fibre-optic light cable	
Camera head + coupler	
Rigid endoscope	
Monitor	

7 units

FreeView

3 units, 1 wireless link

FreeView handle. Camera, 6-LED light source, Wi-Fi, battery
Rigid scope tube (click-and-lock)
Android touchscreen display, 18"

NO LONGER REQUIRED

- ✗ Camera control unit
- ✗ External light source
- ✗ Fibre-optic light cable
- ✗ Cart / tower

3 units

Fig. 1 Equipment count for a conventional ENT imaging tower compared with a complete FreeView system. Units are counted as discrete items requiring placement, power or a cabled connection.

System components

01

Wireless endoscope handle

Camera unit and integrated light source in one ergonomic body: 3500 mAh lithium-polymer cell, Wi-Fi transmitter and 6-LED illumination.

02

Rigid scope tube

Click-and-lock shaft in 4 mm, 2.7 mm, 1.9 mm and 1.2 mm diameters. Dual-lens shafts carry both the 0° and 30° optical channels.

03

Android display, 18"

Touchscreen device running the FreeView application. Live imaging, photo and video capture, and lens switching from the interface.

04

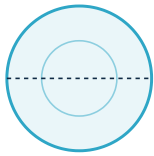
Optional monitor stand

Mobile stand configuration for the clinical room, keeping the display ergonomically positioned.

02 OPTICS & IMAGING

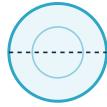
Four shaft diameters. Four working lengths.

Shaft geometry is selected to the procedure rather than the procedure to the scope. Every shaft accepts the same wireless handle, so a practice standardises on one camera across its entire scope inventory.



4 mm

DUAL & SINGLE VIEW



2.7 mm

SINGLE VIEW



1.9 mm

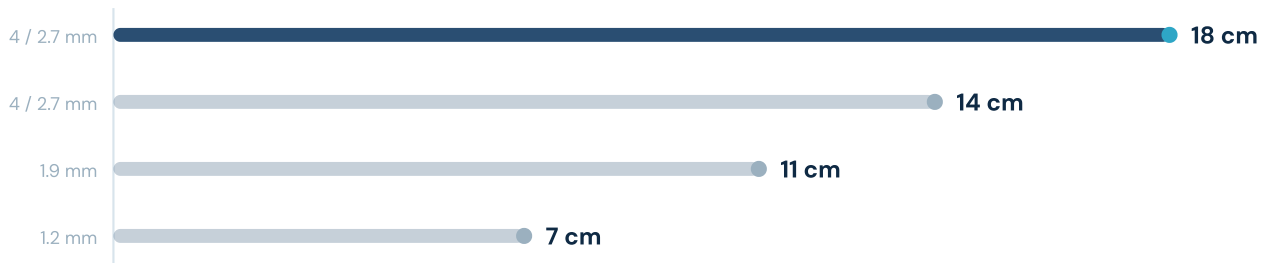
SINGLE VIEW



1.2 mm

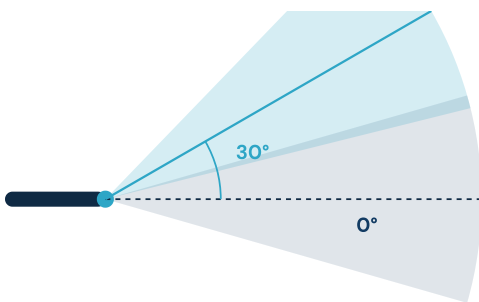
PETITE · SINGLE VIEW

Fig. 2 Shaft outer diameters, drawn to true relative scale. The 4 mm shaft is the only diameter offered in the dual-lens configuration.



PROXIMAL (HANDLE) → DISTAL TIP · DRAWN TO SCALE

Fig. 3 Working lengths available across the range, drawn to true relative scale, with the shaft diameters offered at each length.



SINGLE SHAFT · BUTTON-SWITCHED DUAL LENS

Fig. 4 Dual-view geometry. A single 4 mm shaft carries both optical channels; a short press of the power button toggles the active lens.

Dual-view in a single shaft

Conventional practice requires a second scope, a second sterilisation cycle and a mid-procedure instrument exchange to move between a 0° and a 30° view. The FreeView dual-lens shaft carries both channels and switches between them electronically, with no change of instrument and no interruption to the examination.

- 0° — direct forward view for the nasal corridor and straight-line inspection.
- 30° — angled view for the meatus, recesses and post-operative cavities.
- Instant toggle** — short press of the power button; no unlocking, no re-coupling.

IMAGING

Resolution	1280 × 720
View angles	0° / 30°; 0° / 90° also offered
Illumination	6 LEDs, integrated in the handle
Capture	Still image and video, from the app

03 WIRELESS PLATFORM & WORKFLOW

From case cart to live image in six steps.

The published start-up sequence, end to end. The Wi-Fi signal becomes available approximately eight seconds after power-on; the remaining steps are performed on the display.



NO TOWER · NO LIGHT CABLE · NO CCU

Fig. 5 FreeView start-up sequence. The highlighted span covers the interval from connecting the shaft to the point at which the Wi-Fi signal is available.

01 Connect

Attach the handle to the rigid scope tube. Simple click-and-lock assembly.

02 Power On

Long press the power button. The system initializes in seconds.

03 Connect to Wi-Fi

Wi-Fi signal is available approximately 8 seconds after powering on. Connect your Android display.

04 Open App

Launch the FreeView application on the Android touchscreen.

05 View & Capture

Live image appears instantly. Capture photos and video directly from the app interface.

06 Switch View

On dual-lens models, short press the power button to instantly toggle between 0° and 30° views.

Streaming and display

Wireless transmission

No cable between the scope and the display. Live video streams over Wi-Fi with a robust connection and near-zero latency.

Multi-screen support

Streams simultaneously to the bedside Android display and to additional monitors in the room.

Android app control

Capture, review and switch lens views from the touchscreen without interrupting the procedure.

Future-ready platform

Built on Android and designed to support ongoing software enhancements, protecting the installed investment.

Synchronized Wireless Streaming across Multiple Displays



Fig. 6 Simultaneous streaming to the bedside display and additional room monitors for shared clinical viewing and patient education.

3500 mAh
BATTERY CAPACITY

Up to 4 hrs
CONTINUOUS OPERATION

6 LED
INTEGRATED ILLUMINATION

Wi-Fi
SCOPE-TO-DISPLAY LINK

04 CONFIGURATION & ORDERING

Fourteen complete systems.

Each catalogue number below is a complete system: wireless camera handle, digital scope with integrated LED illumination, and an 18-inch display. No component is sourced separately.

	18 cm	14 cm	11 cm	7 cm
4 mm	0° / 30° DUAL VIEW	0° / 30° DUAL VIEW	–	–
2.7 mm	0° · 30° 2 SYSTEMS	0° · 30° 2 SYSTEMS	–	–
1.9 mm	–	–	0° · 30° 2 SYSTEMS	–
1.2 mm	–	–	–	0° · 30° 2 SYSTEMS

☒ Dual-view shaft
 ☐ Single-view shaft (0° and 30° ordered separately)

Fig. 7 Coverage of the range by shaft diameter and working length. Dual-view is offered on the 4 mm shaft at both 18 cm and 14 cm; every other cell is served by single-view shafts ordered individually at 0° or 30°.

CATALOGUE NO.	DIAMETER	LENGTH	VIEW ANGLE	CAMERA	CONTENTS
DUAL-VIEW SYSTEMS — 0° AND 30° IN ONE SHAFT					
FV-D30-18	4 mm	18 cm	0° / 30°	FV-CAM-D	MOST VERSATILE
FV-D30-14	4 mm	14 cm	0° / 30°	FV-CAM-D	COMPLETE SYSTEM
SINGLE-VIEW SYSTEMS					
FV-SSO-4-18	4 mm	18 cm	0°	FV-CAM-S	COMPLETE SYSTEM
FV-SS30-4-18	4 mm	18 cm	30°	FV-CAM-S	COMPLETE SYSTEM
FV-SSO-4-14	4 mm	14 cm	0°	FV-CAM-S	COMPLETE SYSTEM
FV-SS30-4-14	4 mm	14 cm	30°	FV-CAM-S	COMPLETE SYSTEM
FV-SSO-27-18	2.7 mm	18 cm	0°	FV-CAM-S	COMPLETE SYSTEM
FV-SS30-27-18	2.7 mm	18 cm	30°	FV-CAM-S	COMPLETE SYSTEM
FV-SSO-27-14	2.7 mm	14 cm	0°	FV-CAM-S	COMPLETE SYSTEM
FV-SS30-27-14	2.7 mm	14 cm	30°	FV-CAM-S	COMPLETE SYSTEM
FV-SSO-19-11	1.9 mm	11 cm	0°	FV-CAM-S	COMPLETE SYSTEM
FV-SS30-19-11	1.9 mm	11 cm	30°	FV-CAM-S	COMPLETE SYSTEM
FV-SSO-12-7	1.2 mm	7 cm	0°	FV-CAM-S	COMPLETE SYSTEM
FV-SS30-12-7	1.2 mm	7 cm	30°	FV-CAM-S	COMPLETE SYSTEM

Included in every system

Wireless camera handle, digital scope with integrated LED, and an 18-inch Android display.

Camera compatibility

FV-CAM-D handles dual-lens shafts; FV-CAM-S handles single-lens shafts. Shafts of the same family are interchangeable on one handle.

Optional accessory

Mobile monitor stand for clinical-room placement, ordered separately.

05 SPECIFICATIONS

Technical data.

OPTICS & IMAGING

Resolution	1280 × 720
Scope diameter	4 mm · 2.7 mm · 1.9 mm · 1.2 mm
Working length	18 cm · 14 cm · 11 cm · 7 cm
View angle	0° / 30° dual-lens; 0° or 30° single-lens
LED illumination	6 LEDs, integrated in the handle
System configurations	14 complete systems

PLATFORM & POWER

Battery	3500 mAh lithium-polymer (LiPo)
Battery life	Up to 4 hours continuous
Connectivity	Wireless Wi-Fi streaming
Time to Wi-Fi	~ 8 seconds from power-on
App platform	Android
Display	18-inch Android touchscreen (included)
Intended specialty	Otolaryngology

2 cameras
COVER ALL 14 SYSTEMS

4 diameters
1.2–4 MM

4 lengths
7–18 CM

1 wireless link
SCOPE TO DISPLAY

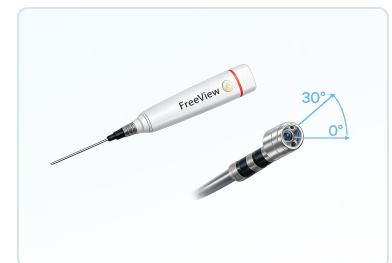
Clinical scope

FreeView is intended for otolaryngology visualization procedures — diagnostic nasal endoscopy, laryngoscopy, post-operative surveillance and in-office examination — performed by qualified clinicians. The dual-view configuration is designed for examinations that would otherwise require an instrument exchange between viewing angles.

Every shaft couples to the same wireless handle, so a practice standardises on one camera rather than one camera per scope.

Deployment notes

- No camera control unit, external light source or fibre-optic light cable is required.
- Wi-Fi signal is available approximately 8 seconds after power-on.
- The Android platform supports subsequent software enhancements and feature updates.
- Additional room monitors can receive the stream alongside the bedside display.



Dual-lens shaft tip: both optical channels in a single 4 mm shaft.

Important. This catalogue is provided for informational purposes to healthcare professionals. FreeView is intended for use by qualified clinicians in accordance with institutional protocols and applicable regulations. Specifications are subject to change without notice; confirm the current configuration and availability with Pure Novamed before placing an order. Catalogue numbers denote complete systems as described in Section 04. Product appearance may differ from the images shown. FreeView is a trademark of Pure Novamed.

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Pure Novamed

An ENT-focused medical technology company advancing visualization and surgical laser platforms for otolaryngology practices across the United States.

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