

Panorama™ WMTS Telemetry Network

General Description

Ambulatory and Instrument Telemetry can be combined with hard-wired bedside monitoring, on one Panorama central station. Realize maximum cost effectiveness, simplicity and monitoring flexibility in a system that combines the power of wireless communications with bedside monitors suitable for critical care applications.

Summary of Features and Benefits

- The Panorama Telemetry Network combines the reliability of hard-wired connectivity with the flexibility of wireless monitoring
- High bandwidth ensures support for all critical care advanced bedside monitor parameters including wireless 12 lead
- Bi-directional communications with bedside alarm tracking ensures continuity between bedside monitors and central stations
- Provides continuous patient monitoring in the emergency, step down, critical care departments and anywhere in-between
- The Panorama Telemetry Network offers a choice of 608 MHz or 2.4 GHz wireless technologies for both instrument and ambulatory telemetry, enabling hospitals to choose the technology that best suits their needs.
- Ambulatory telemetry, Instrument telemetry and hardwire on a single Panorama central station minimizes hardware and space requirements.



WMTS Telemetry

AMBULATORY TRANSCEIVER

Environmental:

Model Name:	Panorama Telepack – 608
Weight:	6.4 oz (without batteries)
Dimensions:	5.10" H x 2.95" W x 1.23" D
Operating Temperature:	+5° to +40° C
Altitude:	Storage and Operating: -1,250 - 9,889 Ft.
Shock:	Passed Shock test per IEC 60068-2-27
Operating Humidity:	15% to 90% non-condensing
Water resistance:	Waterproof per IPx7 standard with leads attached

Operating:

Buttons:	Nurse Call, Attendant Present, Lead Test/Battery Test, Remote Print.
LEDs:	7 LEDs for display of lead status, battery status and link status
No. of Lead wires:	3 or 5
Lead vectors transmitted:	I, II, III, aVR, aVL, aVF, V (n)
User selectable default lead:	Yes, Lead I or II
ST and Arrhythmia:	Yes, Optional
Frequency Range:	WMTS band
Battery Type:	2 AA Alkaline or Lithium
Battery Life:	40 Hours typical with Alkaline batteries

PANORAMA TELEMETRY SERVER

Hardware Specifications

Dimensions:	17.18" H x 7.44" W x 18.87" D
Power:	100-240 VAC \pm 10%
Weight:	36.5 lbs max
Operating Temperature:	+5° to +40° C
Altitude:	Storage and Operating: -1,250 to 9,889 Ft.
Shock:	meets ISTA test procedure 1A
Operating Humidity:	20% to 80% non-condensing

Memory

RAM:	512MB
Hard Drive:	20.5GB

Digital RF Interface

Form factor:	Internal PCI card
Connector:	1 LVDS input



INSTRUMENT TRANSCEIVER

Environmental:

Model Name:	Panorama Instrument Radio – 608
Form Factor:	Internal with external antenna
Weight:	5.6 oz max.
Operating Temperature:	+5° to +40° C
Altitude:	Storage and Operating: -1,250 to 9,889 Ft.
Shock:	15g, 11mS, half sine
Operating Humidity:	15% to 95% non-condensing

PANORAMA WIRELESS TRANSCEIVER

Environmental:

Weight:	12.35 lbs max.
Dimensions:	5.2" H x 17" W x 16.2" D
Power:	100-120 VAC (\pm 10%); 1.25 amps max
Operating Temperature:	+5° to +40° C
Altitude:	Storage and Operating: -1,250 to 9,889 Ft.
Shock:	meets ISTA test procedure 1A
Operating Humidity:	20% to 80% non-condensing
Form factor:	Horizontal; fits standard EIA 19" rack

Operating:

LEDs:	3 status LED's (power, programmed, fault)
Front connectors:	2 BNC 75 Ohm (antenna inputs)
Rear connectors:	4 LVDS digital output connectors

PANORAMA ANTENNA

Environmental:

Frequency Range:	608-614 MHz
Weight:	.88 lbs max.
Dimensions:	5.5" H x 7.6" W

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Panorama™ ISM Telemetry Network

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ISM Telemetry

AMBULATORY TRANSCIEVER

Environmental:

Model Name:	Panorama Telepack - 2.4
Weight:	7 oz (without batteries)
Dimensions:	6.49" H x 3.7" W x 1.49" D
Operating Temperature:	+5° to +40° C
Altitude:	Storage and Operating: 9,842 Ft.
Shock:	Passed Shock test per IEC 60068-2-27
Operating Humidity:	15% to 90% non-condensing
Water resistance:	Waterproof per IPx7 standard with leads attached

Operating:

Buttons:	Nurse Call, Attendant Present, Lead Test/LinkTest/Battery Test
LEDs:	7 LEDs for display of lead status, battery status and link status
No. of lead wires:	3 or 5
Lead vectors transmitted:	I, II, III, aVR, aVL, aVF, V (n)
User selectable default lead:	Yes, Lead I or II
ST and Arrhythmia:	Yes, Optional
Frequency Range:	2400-2500 MHz
Battery Type:	2 AA Alkaline
Battery Life:	24 hours typical with Alkaline batteries

PANORAMA TELEMETRY SERVER

Hardware Specifications

Dimensions:	17.18" H x 7.44" W x 18.87" D
Power:	100-240 VAC ± 10%
Weight:	36.5 lbs max
Operating Temperature:	+5° to +40° C
Altitude:	Storage and Operating: -1,250 to 9,889 Ft.
Shock:	meets ISTA test procedure 1A
Operating Humidity:	20% to 80% non-condensing

Memory

RAM:	512MB
Hard Drive:	20.5GB



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INSTRUMENT TRANSCIEVER

Environmental:

Model Name:	Panorama Instrument Radio - 2.4
Form Factor:	PCMCIA
Weight:	1.6 oz max.
Dimensions:	.19" H x 2.12" W x 3.34" D
Operating Temperature:	+5° to +40° C
Altitude:	Storage and Operating: -1,250 to 9,889 Ft.
Shock:	15g, 11mS, half sine
Operating Humidity:	15% to 95% non-condensing

ACCESS POINT

Environmental:

Weight (with power supply):	16 oz max.
Dimensions:	1.25" H x 7.75" W x 5.86" L
Operating Temperature:	-20° to +55° C
Power:	External AC – 115/230VAC, 50/60Hz
Operating Humidity:	10% to 95% non-condensing
Shock:	40g, 11mS, half sine
Drop:	Withstand up to 2.49 Ft drop to concrete with possible surface marring

Operating:

Frequency Range:	2400-2500 MHz
Frequency Hops:	79
Hop Rate:	10 hops per second
Hop Sequences:	79 (per IEEE 802.11)
Radio Data Rate:	1 or 2Mbps per channel (auto select)
Radio Power Output:	100mW
Range:	40M typical hospital setting
TX Maximum ERP:	FCC part 15.247
Modulation:	Binary GFSK
TX OOB Emissions:	FCC part 15.247, 15.205, 15.209

WIRELESS ANTENNA

Frequency:	2.4 – 2.5 GHz
Weight:	10.2 oz max.
Height:	9.01"
Nominal Impedance:	50 Ohms
Connection to Access Point:	Reverse polarity BNC with 3.9 Ft. long cable

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