

DATA SHEET

Qt® PATIENT PRIVACY SYSTEM SPEECH PRIVACY SOLUTION FOR PATIENT ROOMS



The Qt Patient Privacy System consists of a control module, two lighted privacy signs, and a series of direct-field sound masking emitters. The intuitive control module can be installed in a reception desk, behind a pharmacy counter, or mounted to a wall. Once turned on, the emitters installed in the ceiling add a low level of background sound into the space that makes human speech less intelligible. Lighted privacy signs turn on to indicate the system is running, letting patients know that conversations are being protected.

FEATURES

- Out-of-the-box support for spaces up to 800 ft² (74 m²)
- Control module and privacy signs provide clear indication that the system is activated
- Premium, minimalist design style seamlessly fits in with modern healthcare design aesthetics
- Patented direct-field sound masking provides uniform masking coverage
- Smooth sound masking ramp up and ramp down to limit disruptions; adjustable via the front panel
- Option to add additional emitters for larger areas
- Easy to integrate with in-room third-party control systems
- Energy efficient; consumes less than 7 watts of power
- Straightforward, low-impact installation
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The sound masking solution shall be comprised of a sound masking generator, privacy signs, and sound masking emitters. The sound masking solution shall be suitable for use in areas up to 800 square feet (74 square meters) in size with 8 emitters. The sound masking solution shall be expandable to a total of 120 compatible emitters, providing up to 12,000 square feet (1,115 square meters) of coverage. The sound masking generator shall be suitable for surface or recessed wall mounting. The sound masking generator shall support 4 channels of amplified non-correlated audio signals within a single control zone. The sound masking generator shall support programmable levels of sound masking up to a maximum of 55 dBA SPL. The sound masking level shall be adjustable via the front panel menu or an optional remotely switched contact closure. The sound masking ramp up/down times shall be independently adjustable for both front panel and contact closure operation. The sound masking generator shall include a front panel button lockout capability. The privacy signs shall be wall-mounted and powered by the sound masking generator. The privacy signs shall provide visual indication of sound masking on/off states. The sound masking emitters shall comply with the requirements of UL Standard 2043 and shall be suitable for mounting in acoustic ceiling tiles that also comply with UL Standard 2043 requirements. The sound masking emitter connections shall be made via category 3 structured cabling or better with RJ-45 modular plugs in a daisy-chain configuration. The sound masking generator shall be ETL listed and GreenSpec listed. The sound masking solution shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be 5 years. The sound masking solution shall be Qt® Patient Privacy System.

Qt PATIENT PRIVACY SYSTEM SPECIFICATIONS

CONTROL PROCESSOR		Power Supply	
Frequency Response¹:		Operating Voltage:	100-240VAC 50/60Hz
Sound Masking:	200Hz to 6.3kHz	Current Draw:	0.6A
Music/Paging:	200Hz to 10kHz	Output:	24VDC @ 1A
SPL¹:		Max. Power Consumption (24VDC):	7W
Minimum Masking SPL (@ 1m):	30dBA	Input Connector:	Captive Screw Terminal & Coax Power Plug (center pin positive)
Maximum Masking SPL (@ 1m):	60dBA		
Maximum Music/Paging SPL (@ 1m):	62dBA	Overall Dimensions	
Masking		Height:	3.5 inches (89mm)
Number of Non-Correlated Masking Sources:	4	Width:	7 inches (179mm)
Number of Masking Zones:	1 (2 cable runs per zone)	Depth:	0.875 inches (23mm)
Masking Level Adjustment:	0.5dB steps	Weight:	11 oz. (318g)
Masking Ramp Times:	0-120 seconds (up and down ramp times are independent)	Included Accessories:	ACT Hole Saw; Box Adapter Plate (4-Gang US or 3-Gang UK/EU)
Audio Inputs		PRIVACY SIGNS	
Input Connector Type:	Captive Screw Terminals	Number of Connectors:	1
Number of Inputs:	1 (Stereo or Mono)	Connector Type:	Spring-Loaded Push Terminals
Input Level:	+4dBu (2VRMS max)	Cable Type:	20AWG 2-Conductor Type CMP (Plenum)
Input Level Adjustment:	1dB steps	Input Voltage:	5VDC @ 75mA
Input Impedance:	5kΩ	Overall Dimensions	
Remote Control		Height:	3.5 inches (89mm)
Connector Type:	Captive Screw Terminals	Width:	4.5 inches (113mm)
Input Type:	Contact Closure (Normally Open)	Depth:	0.2 inches (48mm)
Number of Inputs:	1	Weight:	3 oz. (91g)
Output Type:	Logic Status (5VDC)	Included Accessories:	2 Single Gang Electrical Enclosure Backing Plates; 2 Glass Finishing Plates with Adhesive Strips; (2) 50 foot (15m) cables
Number of Outputs:	1		
Output Connections:	2 RJ-45		
Minimum Output Impedance:	7Ω (per channel)		
Privacy Sign Connections			
Number of Connectors:	2		
Connector Type:	Captive Screw Terminals		
Output Voltage:	5VDC @ 75mA		

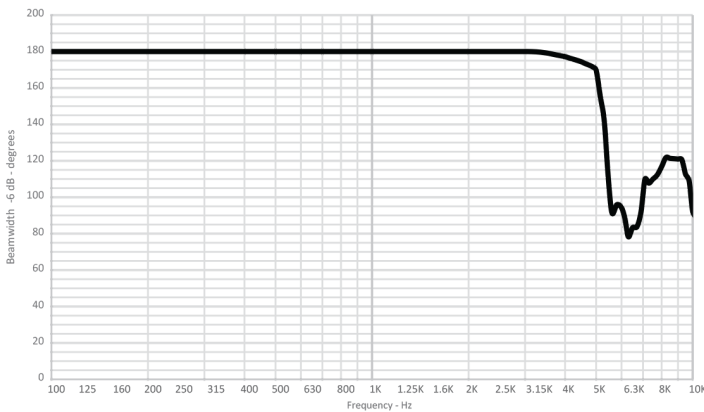
¹ Specifications based on emitter array using published layout practices in conjunction with Qt Control Processor.

Qt PATIENT PRIVACY SYSTEM SPECIFICATIONS (CONTINUED)

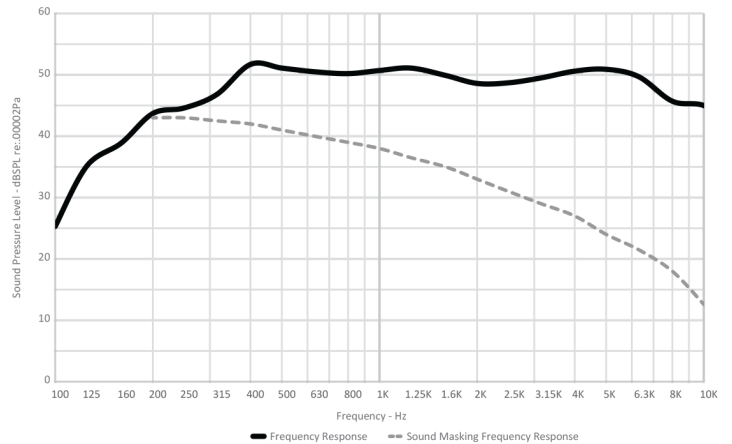
EMITTERS			
Number of Emitters:	8	Cable Type:	UTP Twisted Category 3 Type CMP (Plenum)
Input Connection:	1 RJ-45	Overall Dimensions	
Output Connection:	1 RJ-45	Height:	2.5 inches (64mm)
Frequency Response¹:		Diameter:	3.25 inches (83mm)
Sound Masking:	200Hz to 10kHz	Weight:	5.6 oz. (159g)
Music/Paging:	200Hz to 10kHz	Included Accessories:	Ceiling Tile Mounting Ring; (1) 50 foot (15m) cable; (7) 16 foot (5m) cables
SPL¹:		Environment	
Minimum Masking SPL (@ 1m):	30dBA	Ambient Operating	
Maximum Masking SPL (@ 1m):	60dBA	Temperature Range:	40 – 90° F (4 – 32° C)
Maximum Music/Paging SPL (@ 1m):	62dBA	Humidity:	0–95%, non-condensing
Channel Selection:	4 Channels (Auto Sequencing and Repeating)	Altitude:	0–6,600 feet (0–2000 Meters) MSL
Loudspeaker Type:	Passive with Transformer	Compliance:	FCC Part 15B (USA) CE marked (Europe) UL und C-UL listed (USA and Canada) ETL Listed (USA and Canada) GreenSpec Listed (UK) RoHS Directive (Europe) Emitters evaluated to the requirements of UL 2043 and are suitable for use in air handling spaces
Maximum Power Consumption:	0.11W		
Driver Diameter:	1.25 inches (32mm)		
Nominal Impedance:	3.6kΩ		
Nominal Dispersion:	170° conical/half space		
Selectable Attenuation:	0dB, -3dB, -6dB, -9dB		
Maximum Emitter Quantity (per Run):	60		
Maximum Number of Runs:	2		
Maximum Cabling Distance (per Run):	1000 feet (300m)		

¹ Specifications based on emitter array using published layout practices in conjunction with Qt Control Processor.

BEAMWIDTH



FREQUENCY RESPONSE



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