

CUSTOMIZEYOURCOMMUNICATIONSYSTEM

# TRUSTED 9 VERSATILEX

P139-HDDIGITALAUDIOSYSTEM



The P139-HD Digital Audio System is the industry's most adaptable and efficient communication solution. Trusted by top lawen forcement and mission utility operators worldwide.

# P139-HD Digital Audio System

## CONFIGUREDTOYOURUNIQUEMISSIONREQUIREMENTS



Multicast and Simulcast Retransmitincomingaudioonanymission radio. Select any radio combination.



Bi-Directional Radio Relay With no additional components.



Easy Programming of Levels, Priorities, or Alert tones Using built-in web-based configuration interface



Bluetooth® audio (for select models) ConnectaBluetoothcompatibledevicefor call and audio streaming.



Multiple ICS Zones Isolate, call and private ICS functions in a single router.



Isolation Relays
Internal emergency Com 1 and Com 2
isolationrelayswithICSbetweenPilotand
Co-Pilot in emergency mode.



CustomFunctionalityProgramming Customer specific configurations can be installed for specific mission requirements.



Custom Engraving Controlpanelscanbecustomengravedat no additional charge.



Multi-Axis Mounting
Audio Router has multi-axis mounting
points for any application.



Pilot and Co-Pilot Control Panel Allows for a single control panel in the cockpit.



Excellent Sound Quality Full48KHzsamplingforhighqualityaudio.



Selected Positional Audio (SPA) Select and position priority audio to increase operator focus.



NVIS-Compatible Lighting Included at no additional charge.



Removable Memory Card For easy system and firmware updates.

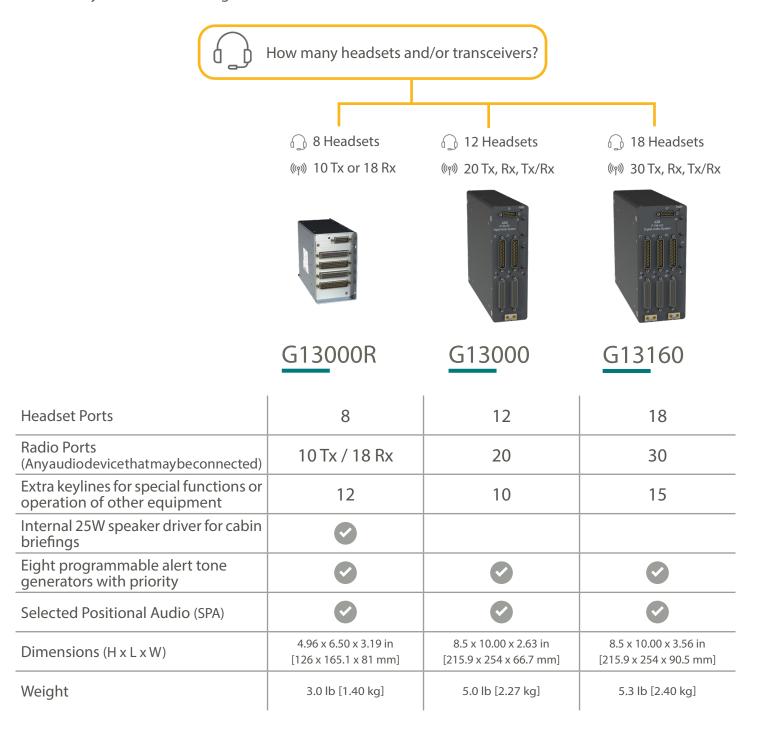
<sup>\*</sup>TheBluetooth®wordmarkandlogosareregisteredtrademarksownedbyBluetoothSIG,Inc.andanyuseofsuchmarksbyAnodyneElectronicsManufacturingCorp.isunder license. Other trademarks and trade names are those of their respective owners.

# Configure Your System

The P139-HDD igital Audio System is a modular and scalable audio platform which provides centralized control and routing for all aircraft audio signals. The platform architecture provides a single integrated solution for all audio to or from transceivers, receivers, head sets, recorders, and other audio sources including intercomaudio routing and talk groups.

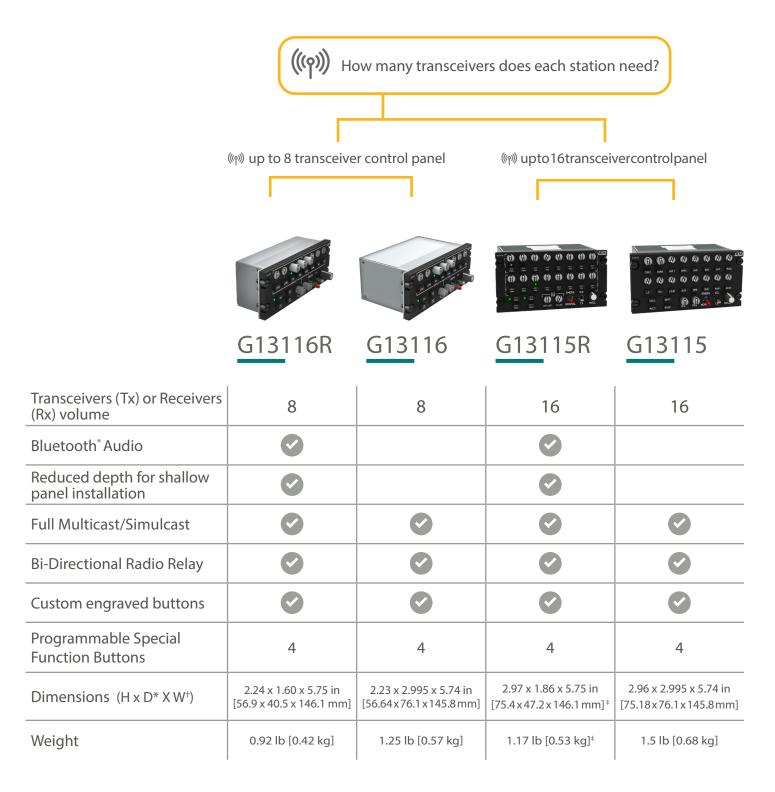
## **Audio Router Options**

The Audio Routerroutes and mixes all aircraft audio from all sources controlled by the attached Control Panels and dictated by the installed configuration.



## **Control Panel Options**

The Audio System may be configured to use any number of different control panel types, each specifically configured for a customer's needs.



<sup>\*</sup>Depth behind panel

<sup>†</sup>Width of front panel

<sup>‡</sup>Preliminary dimensions

# **Example Configurations**

Customer specific configurations can be installed for specific mission requirements.

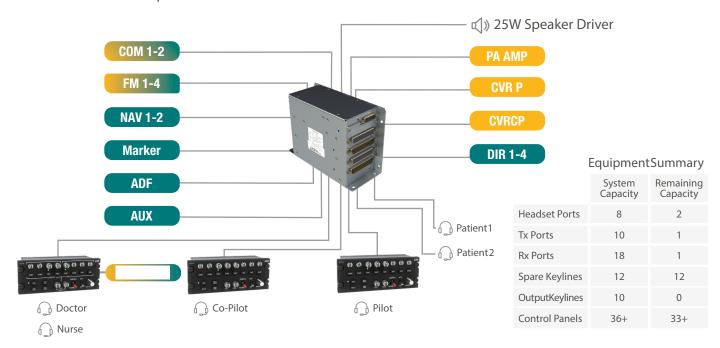






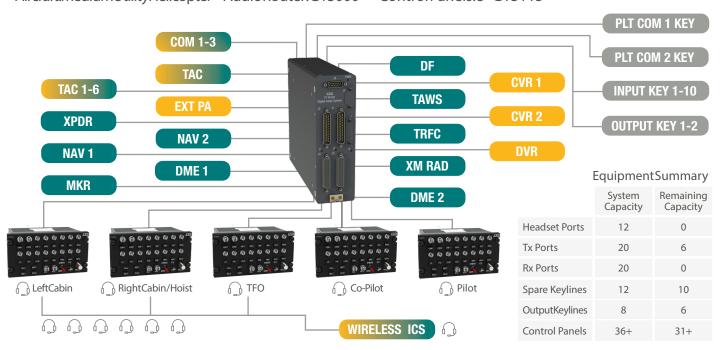
# Aerial Emergency Medical Services

Aircraft: Medium Helicopter Audio Router: G13000R Control Panels: 3 - G13116R with Bluetooth



## **Aerial Law Enforcement**

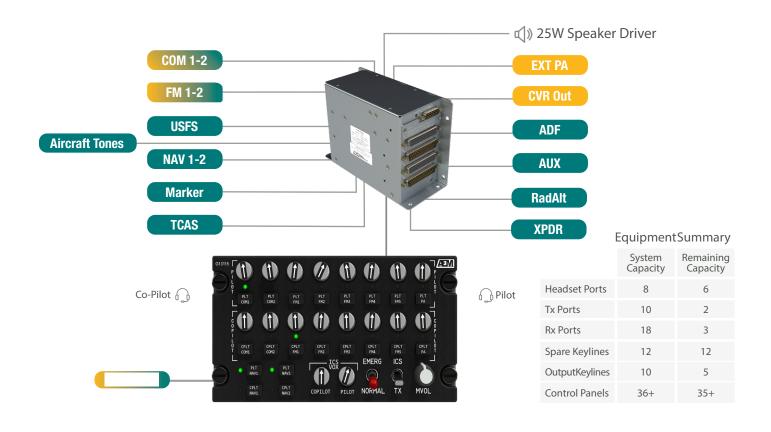
Aircraft:MediumUtilityHelicopter AudioRouter:G13000 ControlPanels:5-G13115



# Aerial Firefighting (Small/Medium)

Aircraft:Light/MediumHelicopter AudioRouter:G13000R (

AudioRouter:G13000R ControlPanels:1-G13115RwithBluetooth®



# System Setup and Configuration

Built-in web-based interface allows user configuration of each enabled radio and headset port.

- Plug and Play
  No custom cable, no custom
  software
- Fine Tune Settings
  Audio volume levels, alert tones
  and panel dimmers
- Save and Restore
  Settings can be saved with comments and restored



#### **Environmental Qualifications**

DO-160FENVIRONMENTALCAT.D1C4XXBAAU2(F)(F1)XXXXXXZBXXBBZCTTMA3D3XXXXXXAX

		- ' ' ' '	
DO-160FENV.CAT.	SECTION	CATEGORY	DESCRIPTION
Alt	4.0	C4	Equipment tested to Category C4 (35,000ft, non-pressurized, non- controlled temperature)
Low Temperature	4.0	D1	OperatingTemp:-20°C.Short-TimeOperating:-40°C.GroundSurvival:-55°C
High Temperature	4.0	D1	Operating Temp: +55°C. Short-Time
			Operating: +70°C. Ground Survival:
			+85°C
Loss of Cooling	4.5.4	Z	No Cooling Required
Temp. Variation	5.0	В	5°C minimum per minute
Humidity	6.0	A	Equipment tested to Category A
Shock	7.0	A	6G in any direction
Vibration	8.0	U2	EquipmenttestedtoCategoryU2(Robust
			Vibration Test)
Mag Effect	15.0	Z	Less than 0.3m
Power Input	16.0	В	Equipment tested to Category B
Voltage Spike	17.0	В	Equipment tested to Category B
Conducted Audio	18.0	В	Equipment tested to Category B
InducedSignalSusceptibility	19.0	ZC	Equipment tested to Category ZC
RF Susceptibility	20.0	TT	Equipment tested to Category TT
RF Emissions	21.0	М	Equipment tested to Category M
Lightning Induced	22.0	A3D3	Equipment tested to Category A3D3
ESD	25.0	A	Equipment tested to Category A

### **System Specifications**

ELECTRICAL CHARA	CTERISTICS		
Max. Input Voltage		32	VDC
Min. Input Voltage		14	VDC
Max. Input Current		4	Α
Min. Input Current		1.2	Α
Gnet Voltage	Supplied by G13000	24	VDC
Max. Gnet Current	Per Gnet bus	0.5	Α
Max. Dimmer voltage	DC, AC or PWM input	28	V
DimmerBuses(Independent)	2	EACH	
AUDIO CHARACTERI	STICS		
Max. Microphone Input	MIC GAIN set to minimum	4.5	dBV
MicrophoneInputImpedance		500	Ω
Max. Earphone Output	EAR GAIN at maximum	13.5	dBV
ExpectedEarphoneImpedance		150 or 600	Ω
Max. Receive Input	RX GAIN set to minimum	14.0	dBV
Receive Input Impedance		600	Ω
Max. Transmit Output	TX GAIN at maximum	6.0	dBV
ExpectedTransmitImpedance		150	Ω
KEYLINE CHARACTE	RISTICS		
Headset PTT Key Voltage	Keylinemustbepulledbelowthisvaluetokey	0.5	V
Max. Radio Keyline Voltage	Pull-up voltage provided by radio	28	V
Max. Radio Keyline Current		1	Α
Max. Separate ICS Zones	No separate router required	9	EACH

#### Certification

CERTIFICAT	TION
FAA STC SR00521SE	AS350 B, BA, B1, B2, B3, C, D, D1 AS355 E, F, F1, F2, N Bell 206 A, A1, B, L, L1, L3, L4, 407
	EC 135, P1, T1, P2, T2, P2+, T2+
TCCA STC	EC135 P1,T1,P2,T2,P2+,T2+
SH09-17	AS350 B, BA, B1, B2, B3, D AS355 E, F, F1, F2, N
	Bell 206 A, A1, B, L, L1, L3, L4, 407
EASA STC	AS350 B, BA, B1, B2, B3, D
10036806	AS355 E, F, F1, F2
	EC135 P1, T1, P2, T2, P2+, T2+ Bell 206 A, B, L, L1, L3, L4, 407
ANAC STC	AS350 B, BA, B1, B2, B3
2007506-30	AS355 F, F1, F2, N
	Bell 206 A, B, L1, L3, L4, 407
	EC135 P1,T1, P2,T2, P2+,T2+
FAA STC	MBB BK 117 A-1, A-3, A-4, B-1, B-2, C-1, C-2, D-2
SR02270SE	Bell 204 B, 205 A, 205 A-1, 205 B, 212, 412, 412 EP, 412 CF Bell 214 B, B1, ST
TCCA STC	MBB BK 117 A-1, A-3, A-4, B-1, B-2, C-1, C-2
SH14-33	Bell 204 B, 205 A, 205 A-1, 205 B, 212, 412, 412 EP, 412 CF
	Bell 214 B, B1, ST
EASA STC	MBB BK 117 A-1, A-3, A-4, B-1, C-1, C-2
10056456	Bell 204 B, 205 A-1, 212, 412, 412 SP, 214 ST
ANAC STC	MBB BK 117 A-3, A-4, B-1, B-2, C-1, C-2
2014511-01	Bell 212,412,412 EP, 204 B, 205 A, 205 A-1, 214 B, 214 B-1
JCAB STC STC-460-TYO	Bell 412EP

#### Non-STC Airframe Installations

ROTARY WING	FIXED WING
Bell 429	Airvan
Bell 505	Cessna Caravan
Bell UH-1	Cessna Citation
Eagle Single	Challenger
EC130	E-9A
H155	King Air
Hughes 369FF	PC12
K-MAX	Q200
MD500	Q300
MD500 R44	Q300
	Q300 _



VISIT PRODUCT WEBPAGE



UH-60