



# Rescom® Modular™

## Confined Space/Rescue Communications System

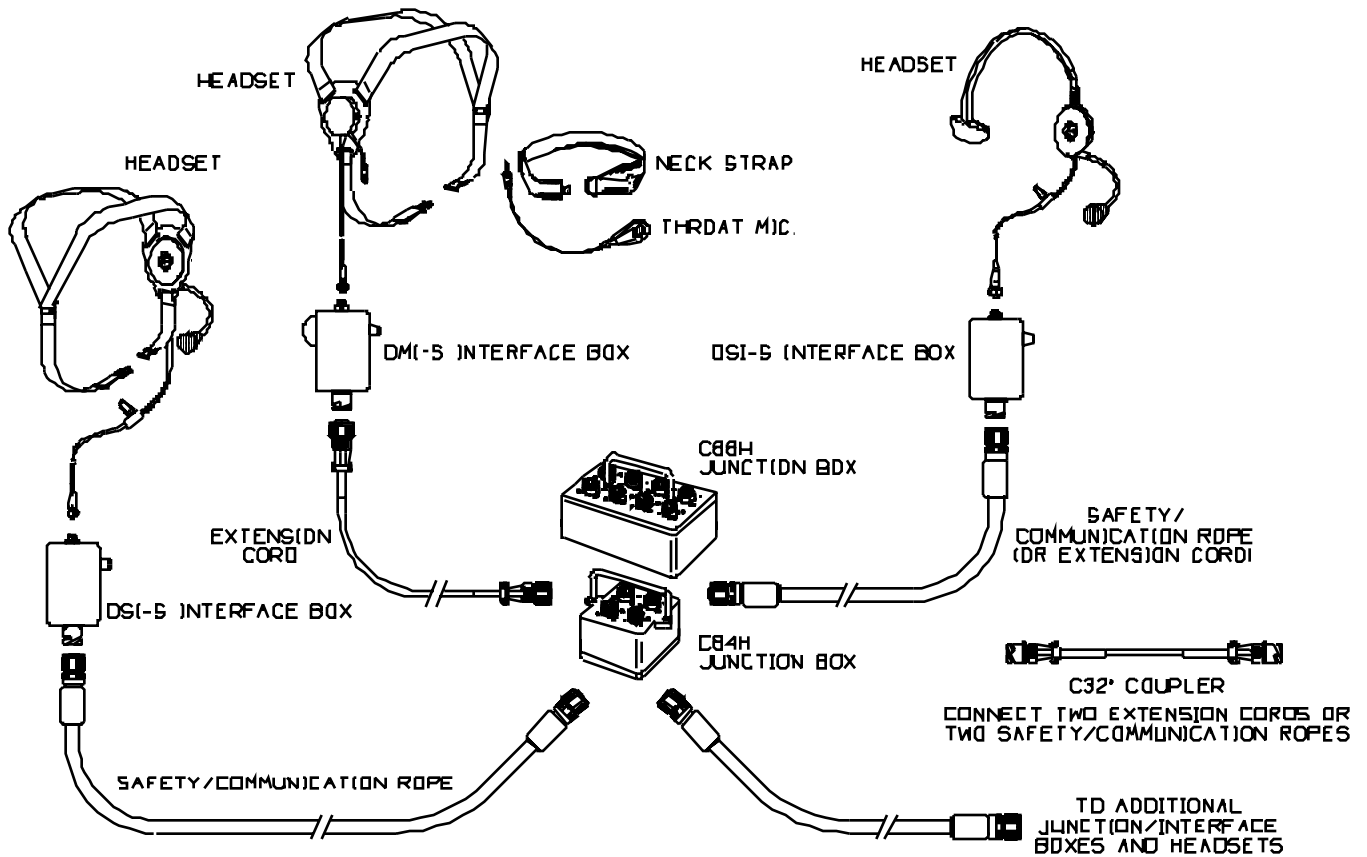
Rescom® Modular™ combines the high performance features of a wired intercom combined with a rope rescue system. Communication for up to 10 people is possible over distances of up to 3 miles per headset while providing a superb voice transmission.



The Rescom® Communication System has set standards for communication in confined spaces for over 10 years. Proven time and time again to provide clear, continuous and effective communications, it is an absolute must for any type of work to ensure the safety of personnel in difficult environments. Rescom® is immune to radio interference. The systems are interconnected by a high performance combined Communication/Life Safety Rope or an extension cord. Since it is wire interconnected, communication is guaranteed even in steel vessels.

**Intrinsically Safe for Class I, Div. 1, Groups A,B,C, and D; Class II, Div. 1, Groups E,F,G; Class III, Div. 1 and Gaseous Mines. Per testing to CSA standard C22.2 No. 157-92 and UL 913 fifth edition.**

### TYPICAL CONNECTION EXAMPLE



# Rescom® Modular™ - Headsets

## Intrinsically Safe Headsets - for Use with Rescom Systems

Two groups of headset products are shown below. All carry full intrinsic safety when used with other headsets on this page. Use of lesser rated components is possible but overall system ratings will be those of the lowest rated component(s). A minimum of one (1) Master™ headset (with Integral Power supply) must be included in any system. Two (2) Master™ headsets may be used to provide a redundant power supply.



DMI-S10  
(available with headstrap)



DMI44-S11  
(available with hardhat mount,  
and throat mic.)



DMI-S12/T



DMI-S13/T

Headset Type		Description
		All units <b>include</b> a belt mounted interface 98mm (3 ¾") L. x 64mm (2 ½") h.
<b>Master™</b>	<b>Slave™</b>	
<b>DMI-S10</b>	<b>DSI-S10</b>	<b>Single sided</b> lightweight headset with noise cancelling boom microphone. Headband or headstrap mount. Both mounts are included in kit. Wear under helmets or hardhats or with SCBA's.
<b>DMI44-S11</b>	<b>DSI44-S11</b>	<b>Dual earphone headset</b> built into a high quality hearing protector. High performance noise cancelling boom mic. Dielectric construction. Headband mounted.
<b>DMI45-S11</b>	<b>DSI45-S11</b>	As the DMI-S11 & DSI-S11 but hardhat mounted.
<b>DMI44-S11/T</b>	<b>DSI44-S11/T</b>	<b>Dual earphone headset</b> built into a high quality hearing protector. High performance throat/bone conducting microphone. Dielectric construction, headband mounted.
<b>DMI45-S11/T</b>	<b>DSI45-S11/T</b>	As the DMI-S11/t & DSI-S11/T but hard hat mounted.
<b>DMI-S12/T</b>	<b>DSI-S12/T</b>	<b>Single sided earphone headset</b> with high performance throat/bone conducting microphone. Headstrap mount. Wear under hardhat or helmet or with SCBA's.
<b>DMI-S13/T</b>	<b>DSI-S13/T</b>	<b>Watertight headset</b> ( to 24" (0.6 m). Dual earphones, headstrap mounted with high performance throat microphone. Wear under hardhat or helmet or with SCBA's.



# Rescom® Specifications - Accessories

Model	Description	Connectors/Length			System	
<b>Junction Boxes</b>		<b>M</b>	<b>F</b>	<b>Length</b>	<b>Modular™</b>	<b>Rescom® 2™</b>
C84T	For permanent installations, w. terminal strip	--	4		Yes	
C84H	For portable use, with handle	--	4		Yes	
C86H	For portable use, with handle	--	6		Yes	
C88H	For portable use, with handle	--	8		Yes	
<b>Extension Cords</b>		<b>M</b>	<b>F</b>	<b>Length</b>	<b>Modular™</b>	<b>Rescom® 2™</b>
03EC2MMD02	Extension Cord, with SEDFLEX Jacket (Other lengths by special order)	2	--	10'/3m	Yes	Audio only
05EC2MMD02		2	--	15'/5m		
30EC2MMD02		2	--	100'/30m		
61EC2MMD02		2	--	200'/61m		
91EC2MMD02		2	--	300'/91m		
152EC2MMD02		2	--	500'/152m		
305EC2MMD02		2	--	1000'/305m		
305EC6MMD11	Specialty cable for Camera application	2	--	1000'/305m	No	Yes
<b>Couplers/Joiners</b>		<b>M</b>	<b>F</b>	<b>Length</b>	<b>Modular™</b>	<b>Rescom® 2™</b>
2EC2MMD02	Allows connection of a Slave Headset directly to the belt mounted junction box	2	--	8"/0.2m	Yes	Audio only
C32D	Coupler to connect 2 ropes or extension cords	--	2	8"/0.2m	Yes	Audio only
<b>Safety Communication Rope, 1/2"</b>		<b>M</b>	<b>F</b>	<b>Length</b>	<b>Modular™</b>	<b>Rescom® 2™</b>
SCR2/015	Rescom® Safety/Communication Rope (Other lengths by special order)	2	--	50'/15m	Yes	Audio Part Only
SCR2/030		2	--	100'/30m		
SCR2/061		2	--	200'/61m		
SCR2/091		2	--	300'/91m		
SCR2/122		2	--	400'/122m		
SCR2/152		2	--	500'/152m		
SCR2/305		2	--	1000'/305m		
SCR2/455		2	--	1500'/455m		
<b>Stuff Bags</b>		<b>M</b>	<b>F</b>	<b>Length</b>	<b>Modular™</b>	<b>Rescom® 2</b>
330002-S	For storage and protection of ropes or extension cords from ultra violet rays	n/a	n/a	for up to 200'	Yes	Not Ideal
330002-M				for up to 350'		
330002-L				for up to 500'		

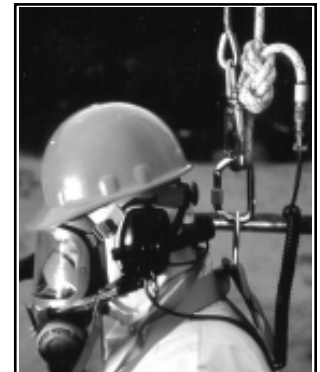


# Rescom® System & Rope Specifications

RESCOM® SYSTEM SPECIFICATIONS	
<b>Communication Type:</b> Full duplex with sidetone	<b>Interconnection Method:</b> Rescue Rope Extension Cord
<b>Headsets per System:</b> <b>Rescom® Modular™</b> - 10 (1 Master, 8 Slaves) <b>Rescom® 2™</b> - 9 or 10 depending type selected (1 Camera Headset, plus 1 Master and balance Slaves)	<b>Connection Type:</b> Military style bayonet Watertight to 35' water pressure. Intuitive layout prevents unsafe connection.
<b>Communication Distance:</b> 3mi (4.8km) per headset	<b>Junction Devices:</b> <b>Type:</b> Portable, Belt/harness mounted, and fixed. <b>Watertightness:</b> 4, 6, 8, connector styles
<b>Battery Life:</b> <b>Rescom® Modular™</b> - 50 hours (10 headsets) - 240 hours (2 headsets)	<b>Headset Mounting Methods:</b> <b>Modular:</b> Headstrap, Headband or Hardhat <b>Extension Cords, Chemical Resistance:</b> Methanol, Ethanol, Gasoline, Motor Oil, Salt Solutions, DEET
<b>Battery Types:</b> Rescom Modular 3 'AA'	

## Rescom Communications/Safety Rope

The Rescom Rope is a high performance Life Safety Line with the communications wire built in. In the Rescom system up to 10, 1500 ft ropes may be used end to end. **Ropes must always be knotted when joining it to the other ropes (connections must not be load bearing)**. Use the Rescom Rope to connect the various Rescom system components together and retain it's intrinsic safety rating. The Rescom Rope is an excellent rappelling rope and may be knotted and run over pulleys and mechanical advantage systems without damage.



RESCOM® ROPE SPECIFICATIONS	
<b>Rating:</b> 2 Man <b>Max Working Load:</b> 6,000 lb. <b>Ultimate Breaking Strength:</b> 9,500 (+) lb.	<b>Tensile Strength (Min.):</b> 9,000 lb./40 kN (As tested on 4"/10.16 cm Ø drums)
<b>Rope Construction:</b> Static Kernmantle <b>Material:</b> Polyester <b>Color:</b> Yellow with (2) red markers <b>Diameter:</b> 1/2 inch (12.7 mm Ø ± .05mm) <b>Stretch:</b> <1% @ 500 kbs (2.2 kN) <b>Rope Lengths:</b> Standard in 100 ft. increments up to 1500'	<b>Termination Strength:</b> Termination 8 Knot >7,000 lb. S.E.D. Termination Plate > 8,500 lb.
<b>Wire Performance:</b> Remain intact to > 9,000 lb/40 kN	<b>Connectors:</b> <b>Type:</b> Male (one each end) <b>Watertightness:</b> to 35 ft. (10.6m) waterpressure
<b>Number of Conductors:</b> 2	<b>Warranty:</b> 1 full year warranty covering workmanship and wire breakage.

# Rescom® 2™ - Video Series



Rescom 2 Voice/Video Headset, shown mounted on a hardhat.

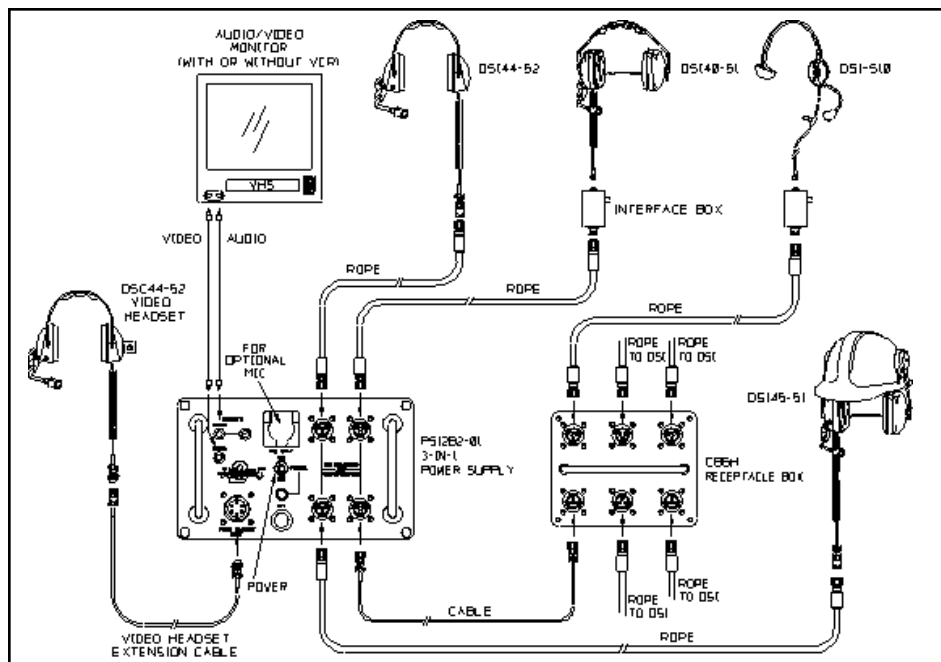


The **Rescom® 2™** is a secure voice and video rescue/communications system. The small profile video camera is built right into the earcup to allow personnel on-site in confined spaces to relay video images to the Attendant who can be up to 1000 feet (330m) away. The video headset and interface are simply connected to any **Rescom® Modular™** audio communication system. Use the video equipment to enhance rescue operations, monitor routine maintenance, produce training videos, and monitor simulations. This 'hands free' communications tool will allow the production of a hard copy of problem areas in difficult environments for later assessment and/or third party evaluation. The wide angle camera gives good video reception even in low light conditions.

## APPLICATIONS

- Visually enhanced confined space training.
- Creation of On-the-job training videos.
- A/V records of field inspections and evaluation for off site review.
- Recording of Operator response to simulated critical situations.
- Monitoring to ensure compliance to work procedure.
- Audio-Visual monitoring of entrants during "rescue operations".
- Remote guiding of less-experienced workers by experts.
- Visual aids for procedure writing.
- Monitoring of specialized work in confined spaces.
- Guided tours of high radiation hazard areas in nuclear stations.

Specifications	
Type:	B/W
Resolution:	400 lines
Illumination (Min.):	.01FC (0.1Lux)
Iris Control:	Automatic
Signal to Noise:	>48dB
Angular field of view:	
Horiz.	76 degrees
Vertical	54 degrees



Typical Connection Example