OCEAN MATRIX ®

Instruction Manual

RM-20

Infrared VTR Remote
Distribution Amplifier / Driver

Thank you for purchasing this Ocean Matrix component. This unit is designed to give you years of trouble free professional operation for your most demanding applications. It is our goal to develop long term partnerships with our customers through our commitment to exceed their expectations.
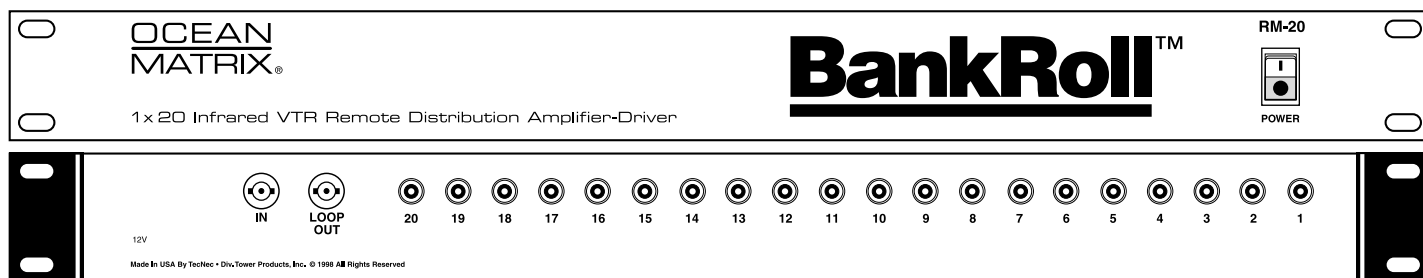
For Repair Information or to view the entire Ocean Matrix product line, please visit our web site.

www.oceanmatrix.com

RM-20

Infrared VTR Remote Distribution Amplifier - Driver

OCEAN MATRIX®

1 x 20 Infrared VTR Remote Distribution Amplifier-Driver

BankRoll™

RM-20

POWER

IN   LOOP OUT   20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

12V

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The RM-20 solves the problem of controlling multiple standard IR controlled VTRs from a single unit in a video duplication facility. The RM-20 has been designed to provide control for 20 VTRs without modifications or conversions of any kind. The unit can handle any IR VTR PROTOCOL when used in conjunction with our **MRM-100/5 INFRARED MASTER REMOTE CONTROL**. RM-20 units can be looped to control up to 1000 VTRs from a single MRM-100/5. Since the 20 outputs are buffered, each VTR receives its own IR signal via a cable with an IR LED attached. This LED is placed in front of the VTR's IR sensor, and that's the only requirement.

The RM-20 is perfect where consumer or prosumer type VHS VTRs are used in real time duplication facilities. The RM-20 will only operate with the MRM-100/5 or a specially modified handheld IR transmitter. RM-20 output cables are part number IRCAB-1. Standard RG59 coaxial cable is used for signal input to the unit.

INSTALLATION & OPERATION

Locate the proper position for the RM-20 & install the supplied DC power pack. Connect the RG-59 input signal to the BNC located at the rear panel. The RM-20 has a looping BNC signal input. DO NOT TERMINATE THE INPUTS OF THE RM-20. If the RM-20 units are not looped, leave the looping BNC open.

Connect the IR cables to each RCA output of the RM-20 and feed the IR LED to each VTR. The RM-20 now ready to be controlled from the MRM-100 master remote control.

SPECIFICATIONS

Input:	From MRM-100/5 controller: BNC Looping input
	Input from modified handheld transmitter
Outputs:	20 Outputs via RCA phono connectors
	Buffered for Belden 8451 type cables
	Output Cables: IRCAB-1
Power:	External DC power peak: 9VDC @ 200mA
Dimensions:	1.75"H x 5"D x 19"W (EIA Rackmount)

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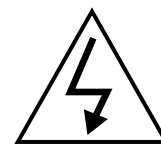**A Division of Tower Products, Inc.**

⚠ Safety Precautions ⚡

1. To prevent fire or shock hazard, do not expose this equipment to the environment of Humidity and/or dust. Do not use this equipment in an unprotected outdoor installation or any area classified as a wet area.
2. The operating temperature of this product must be kept between -40°C and +95°C. Direct sunlight or an intense source of heat, direct or ambient, must not be introduced to the product either by induction or contact.
3. Always keep the product on a stable and secure base or enclosure. Do not drop the product or subject it to sudden heavy impact.
4. Provide adequate ventilation so that thermal characteristics do not cause an increase in product temperature to resulting in overheating.
5. Do not clean the unit by using electrically conductive or corrosive chemicals. Always be certain to unplug the unit from AC wall power before any major cleaning. Use a damp cloth only for cleaning.
6. Do not subject the product to electrical mains power over voltage: The product must be used at the rated supply voltages indicated on the product rear panel only.
7. Do not plug the product into an overloaded electrical outlet. This may result in fire or electrical shock.
8. Object Ingress and Liquid Entry: Never insert or push sharp metal objects into the product or use such devices for an attempt at opening or servicing the product. Servicing should be referred to a trained and qualified technician only. Do not allow liquid of any type to enter the unit. Do not allow the unit to be submersed in water as this may cause a shock hazard.
9. A trained qualified technician should perform all servicing of the unit. There are no serviceable components within the unit for user access.

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