



ANALOG

456

AUDIO

**GRAND MASTER™ STUDIO
MASTERING AUDIO TAPE**

THE PROFESSIONAL STANDARD FOR
THE AUDIO RECORDING INDUSTRY

PRODUCT OVERVIEW

Quantegy 456 Grand Master™ has produced more No. 1 hits and gold albums than all other tapes combined. The professional recording industry has chosen its sonic superiority, consistent performance and reel-to-reel consistency in studios around the globe. Quantegy 456 Grand Master™ continues to be the world's most widely used analog tape, from studio recording to broadcast radio.

PRODUCT FEATURES

- Industry Bias Reference Standard
- Reel-to-reel consistency
- Elimination of transit errors
- TapeCare™ packaging for archival storage and transportation
- Widest variety of packaging options for studio labeling compatibility
- Available in all configurations 1/4", 1/2", 1" and 2" widths from 600' to 5000' lengths



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456 TECHNICAL DATA

Magnetic Properties

Coercivity 320 Oe (25.5 kA/m)
Retentivity 1500 Gs (150 mT)

Physical Properties

Standard Widths:
1/4" 0.246" (6.3 mm)
1/2" 0.496" (12.6 mm)
1" 0.997" (25.4 mm)
2" 1.996" (50.9 mm)
Nominal Thickness:
Base Film 1400 μ" (35.4 μm)
Oxide Coating 500 μ" (12.7 μm)
Backcoating 30 μ" (0.8 μm)
Total 1930 μ" (48.9 μm)

Performance Properties

Sensitivity at 1 KHz +2.0 dB
Sensitivity at 10 KHz +4.0 dB
Third Harmonic Distortion at
Reference Level (1 KHz) 0.1 %
Output Level at 3%
Third Harmonic Distortion (1 KHz) +12.3 dB
Modulation Noise Ratio -76.0 dB
Print-through -55.0 dB

456 CONFIGURATIONS

Catalog Number	Description	Reel Size		Tape Length		Carton Weight		Carton Quantity
		Inches	mm	Feet	Meters	Lbs	Kgs	
456 Grand Master™ Studio Mastering Audio Tape								
456-131111	.25" x 600', 5" plastic reel, setup box	.25 x 5	6.25 x 130	600	183	16.2	7.36	40
456-151111	.25" x 1200', 7" plastic reel, setup box	.25 x 7	6.25 x 180	1200	366	35.0	15.89	40
456-15111Y	.25" x 1200', 7" plastic reel, TapeCare™ box	.25 x 7	6.25 x 180	1200	366	24.6	11.15	20
456-17311J	.25" x 2500', 10.5" NAB reel, setup box	.25 x 10.5	6.25 x 270	2500	762	23.7	10.76	10
456-17311Y	.25" x 2500', 10.5" NAB reel, TapeCare™ box	.25 x 10.5	6.25 x 270	2500	762	25.3	11.4	10
456-17611Y	.25" x 2500', pancake, TapeCare™ box	Hub	Hub	2500	762	18.0	8.16	10
456-17611T	.25" x 2500', pancake, tray pack	Hub	Hub	2500	762	11.4	5.18	10
456-27211Y	.5" x 2500', pancake, TapeCare™ box	Hub	Hub	2500	762	19.9	9.03	7
456-273111	.5" x 2500', 10.5" NAB reel, setup box	.5 x 10.5	12.7 x 270	2500	762	24.3	11.04	7
456-27311Y	.5" x 2500', 10.5" NAB reel, TapeCare™ box	.5 x 10.5	12.7 x 270	2500	762	25.6	11.63	7
456-57211Y	1" x 2500', pancake, TapeCare™ box	Hub	Hub	2500	762	25.3	11.48	5
456-573111	1" x 2500', 10.5" NAB reel, foldup box	1 x 10.5	25.4 x 270	2500	762	27.3	12.40	5
456-57311Y	1" x 2500', 10.5" NAB reel, TapeCare™ box	1 x 10.5	25.4 x 270	2500	762	28.7	13.04	5
456-97G111	2" x 2500', 10.5" precision reel, foldup box	2 x 10.5	50.8 x 270	2500	762	21.9	9.93	2
456-97G11Y	2" x 2500', 10.5" precision reel, TapeCare™ box	2 x 10.5	50.8 x 270	2500	762	23.3	10.57	2
456-99G111	2" x 5000', 14" precision reel, foldup box	2 x 14	50.8 x 360	5000	1524	40.7	18.46	2
456-99G11F	2" x 5000', 14" precision reel, shipper	2 x 14	50.8 x 360	5000	1524	46.6	21.14	2
456-99G11Y	2" x 5000', 14" precision reel, TapeCare™ box	2 x 14	50.8 x 360	5000	1524	43.0	19.50	2
457 Grand Master™ Studio Mastering Audio Tape								
457-15111J	.25" x 1800', 7" plastic reel, setup box	.25 x 7	6.25 x 130	1800	549	19.8	8.99	20
457-17611T	.25" x 3600', pancake, tray pack	Hub	Hub	3600	1098	12.3	5.56	10

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