



IR Solutions - HD Camera Filter Chart

	T 1/2	T1	IRND	HM	HMIR	HMIRND	80CHM	80DHM
SONY:								
EX1, EX3, EX1R	✓	✓	✓					
PMW-350	✓	✓	✓					
SWR-9000	✓	✓	✓					
F3	✓	✓	✓					
F23		✓	✓					
F35		✓	✓					
PANAVISION								
Genesis		✓	✓					
RED: (Mysterium and MX)								
RED ONE			✓*	✓	✓	✓	✓	✓
RED EPIC			✓*	✓	✓	✓	✓	✓
ARRI:								
D21		✓	✓					
D20		✓	✓					
Alexa	✓	✓	✓					
SILICON IMAGING								
SI2K			✓*	✓	✓	✓	✓	
PHANTOM								
FLEX			✓*	✓	✓	✓	✓	✓
HD Gold			✓*	✓	✓	✓	✓	✓
WEISSCAM (HS-2/MKII)		✓	✓					

FILTER USES:

Hot Mirror (HM) – Eliminates IR Pollution starting at 720nm.

Hot Mirror IR (HMIR) – Eliminates Far Red and IR pollution starting at 680. Recommended for use with grads.

Hot Mirror IRND (HMIRND) – Eliminates increased Far Red and IR Pollution when ND is required by cutting the spike produced in the far red visible spectrum starting at 680 without compromising color. IR component is proportionate to ND.

80CHM – For correcting the Color Temperature for use in Tungsten Lighting and eliminating IR pollution starting at 720nm – 1 stop loss.

80DHM – For correcting the Color Temperature for use in Tungsten Lighting and eliminating IR pollution starting at 720nm – 1/3 stop loss.

T 1/2 & T1 – Allows camera to capture subtle hues of red, while maintaining crisp blacks and assisting the camera in capturing the wide color gamut it was designed for – removing Far Red and Near Infrared Pollution from 680nm to 720nm – with a 1/2 and 2/3 stop loss. (Both filters available in the Far Red Control Kit).

Full Spectrum IRND (IRND) – Starting at 680nm, eliminates Far Red and Near Infrared Pollution which increases with the use of normal ND. IR component is proportionate to ND.

*Should only be used in combination with a Hot Mirror for same result as in the Hot Mirror IRND combination. Do not stack with standard ND filters.

NOTE: All Tiffen combination filters are extremely useful in a two stage Matte Box/Sunshade, when space is a premium. We recommend to always white balance after adding or removing any IR or Neutral Density filtration, due to color shifts. The Tiffen Hot Mirror, Hot Mirror combination and T Series filters do not cause color vignetting on wide lenses. Tiffen Full Spectrum IRND and Hot Mirror IRND filters are available 0.3, 0.6, 0.9, 1.2, 1.5, 1.8, and 2.1 densities.

All IR solution filters are made from water white glass using our proprietary ColorCore™ technology.

