

# Absorptive ND Glass Filter Series

- Optical Neutral Density Schott Glass Type
- Selectable Optical Density from 0.04 to 5
- No multiple reflections
- 1" Round and 2" Square Available with Low Cost

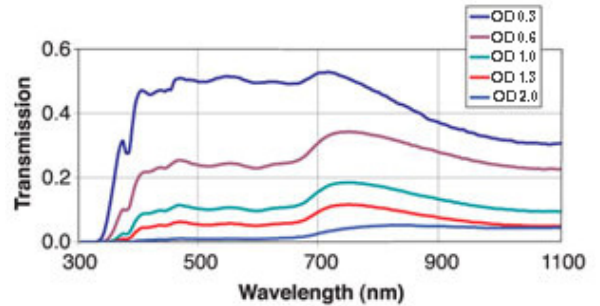


## APPLICATIONS:

Imaging component;  
Optical measurement systems  
Sensor systems  
Medical systems  
General experimental setup for low power applications (<1W @ VIS band)

**NDF-A-2020U Series**  
2"x2" square un-mounted

**NDF-A-R10M Series**  
Ø1" round SM1 mounted



## General Specifications:

**Substrate Material:** Schott neutral density glass  
**Dimension:** Ø25.4mm un-mounted; Ø30mm mounted(1.035"-40 thread ring-mounted)  
 50.8mm x 50.8mm Square  
**Design Wavelength:** 400 ~ 700nm  
**Surface Quality:** 60 – 40 scratch and dig(MIL Standard)  
**Flatness:** ≤ λ per inch  
**Parallelism:** ≤ 1'  
**Optical Density:** **14 types (OD = 0.04 ~ 5)**

**Definition: OD = Log (1/T)**  
 OD: Optical Density  
 T: Transmittance

OD	0.04	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	2.0	3.0	4.0	5.0
T(%)	91	79	63	50	40	32	25	16	10	5	1	0.1	0.01	0.001

**Density Tolerance:** ±5% @ 546nm

**Note:** Other requests for different OD from this list is available. Users may define the diameter "X", or the length "X" and width "Y" for quotations. Please refer to the ordering information for definition of P/N.

## Application Examples:

1. Un-mounted 25mm filter plate compatible to any other φ1" optics mount.;
2. Ring mountable to 6-position ND filter wheel(as shown in the picture);
3. Ring mounted to φ1" filter mount(as shown in the picture);
4. Multiple one-by-one mounted filters in series for high OD wanted:  
e.g. OD0.5 + OD2.0 = OD 2.5

## Ordering Information:

**P/N Definition: Series No. + OD**

Example: "NDF-A-R10M-0.5" means Neutral Density Filter - Absorptive Version - Ø1" round SM1 mounted - OD 0.5  
 "NDF-A-R10-2.0" means Neutral Density Filter - Absorptive Version - Ø1" round SM1 un-mounted - OD 2.0  
 "NDF-A-RX0-3.0" means Neutral Density Filter - Absorptive Version - ØX" round SM1 un-mounted - OD 3.0  
 "NDF-A-2020U-4.0" means Neutral Density Filter - Absorptive Version - 2" x 2" square un-mounted - OD 4.0  
 "NDF-A-X0Y0U-0.1" means Neutral Density Filter - Absorptive Version - X" x Y" rectangular un-mounted - OD 0.1  
 "NDFK-A-R10M" means Neutral Density Filter Kit (14pcs) - Absorptive Version - Ø1" round SM1 mounted  
 "NDFK-A-2020U" means Neutral Density Filter Kit (14pcs) - Absorptive Version - 2" x 2" square un-mounted

**ND FILTER KIT (including 14 types per set)**

**P/N: NDFK-A-R10M**  
Ø1" round SM1 mounted

**P/N: NDFK-A-2020U**  
2"x2" square un-mounted

## Contact Information:

**PHOTONIK (SINGAPORE) PTE LTD**

8 Boon Lay Way, TradeHub 21, #04-04, Singapore 609964  
 Tel: +65-6316-6370, +65-6316-2142 Fax: +65-6316-1082  
 Email: sales@photonik.com.sg Web: www.photonik.com.sg

## Local Representative:

