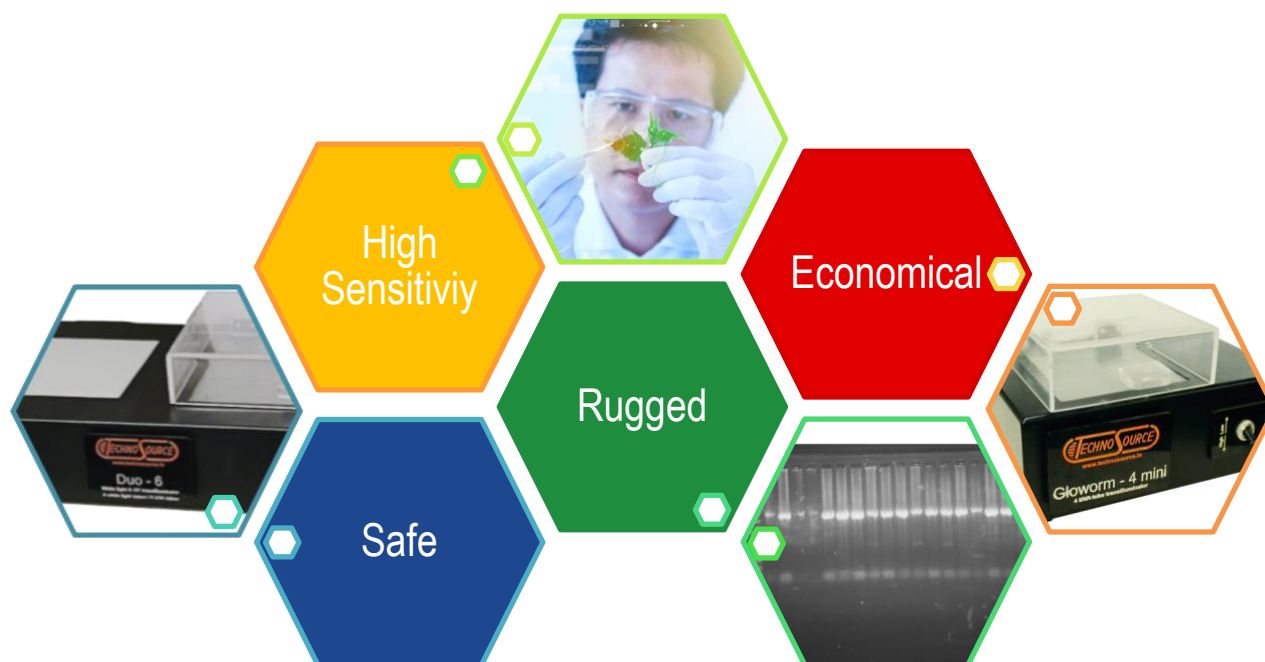


RESEARCHER RANGE
WHITE AND UV DUO TRANSILLUMINATOR
SALIENT FEATURES



High Sensitivity

- Visual detection limit is one ng per compact band of EtBr-stained dsDNA due to high intensity of UV tubes.
- UV bandpass (optical glass) filter allows 85-90% of the UV to pass through

Safety

- UV safety shield prevents UV from escaping the enclosure blocking 99.9% of the UV light
- Dual (high and low) mode for viewing. Go to high mode only when required.
- Body isolated from power source

Rugged

- Filter of 3 mm thickness which does not crack easily
- Reduced solarization i.e. UV-transparency of filter is unchanged over time.
- No corrosion as body is made of Aluminium

Economical

- Low capital costs and spares
- The most economical model available in the Indian market, as the transilluminator is manufactured in India.
- Hood with camera adapter converts the UV transilluminator into a Gel Documentation system.

RESEARCHER RANGE
WHITE AND UV DUO TRANSILLUMINATOR
SELECTION GUIDE

Model	Window size (in cm)		No. of UV Tubes (tube wattage)	White light Source	UV Wave-length	Filter type	Hood	Cat. No.
	For UV transilluminator	For White light transilluminator						
Duo-4 mini	10 (w) x 10 (l)	10 (w) x 10 (l)	4 tubes (4 W each)	LED	UVA	Plastic	Yes	TID0R-WAP405
						Optical Glass	Yes	TID0R-WAG405
				LED	UVB	Optical Glass	Yes	TID0R-WBG405
				LED	UVC	Optical Glass	Yes	TID0R-WCG405
Duo-6	18 (w) x 15 (l)	18 (w) x 15 (l)	6 tubes (6 W each)	LED	UVA	Plastic	Yes	TID0R-WAP607
				LED		Optical Glass	Yes	TID0R-WAG607
				LED	UVB	Optical Glass	Yes	TID0R-WBG607
				LED	UVC	Optical Glass	Yes	TID0R-WCG607
Duo-8	20 (w) x 25 (l)	20 (w) x 25 (l)	8 tubes (8 W each)	LED	UVA	Plastic	Yes	TID0R-WAP809
				LED		Optical Glass	Yes	TID0R-WAG809
				LED	UVB	Optical Glass	Yes	TID0R-WBG809
				LED	UVC	Optical Glass	Yes	TID0R-WCG809

The details above are for the new models of Duo series of White Light and UV light transilluminators.

It is possible to have two UV wavelengths in addition to the white light in a single unit. Please email us at sales@techresource.in for additional details and pricing.

DUO – 4 mini

**Dual Window, each of
size 10 (w) x 10 (l) cm
4 UVA/UVB/UVC tubes
4 White light tubes**



- ✓ **Dual windows: UV-transparent diffuser and white light window**
- ✓ **Chromafilter to improve the contrast of fluorescent bands and filter UV-light**
- ✓ **Compact trapezoid dark viewing hood**
- ✓ **Switch for dual intensity of UV-light**
- ✓ **Knob for changing the intensity of light from low to max for the white light**
- ✓ **Sensitivity 1 ng per band (Highly sensitive)**
- ✓ **White background for applications like viewing protein gels**
- ✓ **High-intensity LEDs for the white light**

Duo-4 mini
(Representational Image)

Features of this apparatus

Rugged

- Non-brittle filter made of plastic which does not crack easily
- No solarization i.e., UV-transparency of UV-transparent diffuser window is unchanged over time
- Best quality switches and LEDs for long-term use
- Robust circuits to supply constant current to LEDs

High Sensitivity

- Visual detection limit 1 ng per compact band of EtBr-stained dsDNA due to the intensity of the UVA tubes
- UV-transparent diffuser window allows 85-90% of the UV to pass through
- Non-flickering white light
- Colour temperature of white light selected for best contrast

Safety

- No skin burns or damage to the retina. UVA tubes emit light similar to outdoor light
- Negligible photo-nicking or photo-bleaching of DNA when using UVA tubes
- UV shield to protect face and to cut off harmful rays
- Dual (Hi-Lo) mode for viewing. Go to Hi-mode only when required

Economical

- Low capital cost and spares
- Does not need costly UV-transparent violet filter
- Minimal cost of spares and accessories
- Three-year warranty for ensuring peace of mind.

Ready-to-use system includes

	TID0R-WAP405	TID0R-WAG405	TID0R-WBG405	TID0R-WCG405
1. Housing unit with a diffusing UV-transparent window and white light window	Yes	Yes	Yes	Yes
2. UV-protective cover	Yes	Yes	Yes	Yes
3. Number of tubes	4 tubes	4 tubes	4 tubes	4 tubes
4. 366 nm UVA tube	Y	Y	N	N
310 nm UVB tube	N	N	Y	N
254 nm UVC tube	N	N	N	Y
4. White light tubes	4 tubes	4 tubes	4 tubes	4 tubes
4. A compact trapezoid dark viewing hood with chromafilter eyepiece	No	No	No	No
5. Instruction manual	Yes	Yes	Yes	Yes

Ordering description

For Duo-4 mini (TID0R-WAP405): Combined white light and UV-transilluminator with diffusing UV-transparent window (10 w x 10 l cm), dimmable white light LEDs and four UVA tubes, 4 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

For Duo-4 mini (TID0R-WAG405): Combined white light and UV-transilluminator with an optical glass bandpass filter of size (10 w x 10 l cm), dimmable white light LEDs and four UVA tubes, 4 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

For Duo-4 mini (TID0R-WBG405): Combined white light and UV-transilluminator with an optical glass bandpass filter of size (10 w x 10 l cm), dimmable white light LEDs and four UVB tubes, 4 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

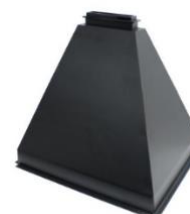
For Duo-4 mini (TID0R-WCG405): Combined white light and UV-transilluminator with an optical glass bandpass filter of size (10 w x 10 l cm), dimmable white light LEDs and four UVC tubes, 4 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

Duo-4 mini and its spares and accessories

Item Description	Cat. No.	Unit
Duo-4 mini, with UVA tubes, ready-to-use system	TID0R-WAP405	System
Duo-4 mini, with UVA tubes, ready-to-use system with hood	TID0R-WAG405	System
Duo-4 mini, with UVB tubes, ready-to-use system with hood	TID0R-WBG405	System
Duo-4 mini, with UVC tubes, ready-to-use system with hood	TID0R-WCG405	System
UVA tubes for Duo-4 mini (4 No.)	TIC0S-UA0404	Set
UVB tubes for Duo-4 mini (4 No.).	TIC0S-UB0404	Set
UVC tubes for Duo-4 mini (4 No.).	TIC0S-UC0404	Set
White light LED strip for Duo-4 mini (1 No.).	TIC0S-WLS0M4	Set
Electronic ballast for 4 W tubes with wiring (2 No.)	TIC0S-BA1102	Set
Electronic LED driver and dimmer with wiring for window size 10 x 10 (1 No.)	TIC0S-DD00M4	Set
Compact trapezoid dark viewing hood for Duo-4 mini.	TIC0S-H01010	Unit
Compact trapezoid dark viewing hood for Duo-4 mini with accessories for attachment of camera.	TIC0S-HC1010	Unit
Detachable binocular chromafilter (orange) eyepiece for trapezoid dark viewing hood.	TIC0S-CF0R01	Piece
Detachable binocular chromafilter (green) eyepiece for trapezoid dark viewing hood.	TIC0S-CFGN01	Piece
DSLR camera, 18 MP, CMOS sensor, with filters and software compatible with transilluminators.	TIC0S-CM0S18	Set
DSLR camera, 24 MP, CMOS sensor, with filters and software compatible with transilluminators.	TIC0S-CM0S24	Set

DUO – 6

**Dual Window, each of
size 18 (w) x 15 (l) cm
6 UVA/UVB/UVC tubes
6 White light tubes**



- ✓ **Dual windows: UV-transparent diffuser and white light window**
- ✓ **Chromafilter to improve the contrast of fluorescent bands and filter UV-light**
- ✓ **Compact trapezoid dark viewing hood**
- ✓ **Switch for dual intensity of UV-light**
- ✓ **Knob for changing the intensity of light from low to max for the white light**
- ✓ **Sensitivity 1 ng per band (Highly sensitive)**
- ✓ **White background for applications like viewing protein gels**
- ✓ **High-intensity LEDs for the white light**

Duo-6

Features of this apparatus

Rugged

- Non-brittle filter made of plastic which does not crack easily
- No solarization i.e., UV-transparency of UV-transparent diffuser window is unchanged over time
- Best quality switches and LEDs for long-term use
- Robust circuits to supply constant current to LEDs

High Sensitivity

- Visual detection limit 1 ng per compact band of EtBr-stained dsDNA due to the intensity of the UVA tubes
- UV-transparent diffuser window allows 85-90% of the UV to pass through
- Non-flickering white light
- Colour temperature of white light selected for best contrast

Safety

- No skin burns or damage to the retina. UVA tubes emit light similar to outdoor light
- Negligible photo-nicking or photo-bleaching of DNA when using UVA tubes
- UV shield to protect face and to cut off harmful rays
- Dual (Hi-Lo) mode for viewing. Go to Hi-mode only when required

Economical

- Low capital cost and spares
- Does not need costly UV-transparent violet filter
- Minimal cost of spares and accessories
- Three-year warranty for ensuring peace of mind.

Ready-to-use system includes

	TID0R-WAP607	TID0R-WAG607	TID0R-WBG607	TID0R-WCG607
1. Housing unit with a diffusing UV-transparent window and white light window	Yes	Yes	Yes	Yes
2. UV-protective cover	Yes	Yes	Yes	Yes
3. Number of tubes	6 tubes	6 tubes	6 tubes	6 tubes
4. 366nm UVA tube	Y	Y	N	N
310nm UVB tube	N	N	Y	N
254nm UVC tube	N	N	N	Y
4. White light tubes	6 tubes	6 tubes	6 tubes	6 tubes
4. A compact trapezoid dark viewing hood with chromafilter eyepiece	No	No	No	No
5. Instruction manual	Yes	Yes	Yes	Yes

Ordering description

For Duo-6 (TID0R-WAP607): Combined white light and UV-transilluminator with diffusing UV-transparent window (18 w x 15 l cm each), dimmable white light LEDs and six UVA tubes, 6 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

For Duo-6 (TID0R-WAG607): Combined white light and UV-transilluminator with an optical glass bandpass filter of size (18 w x 15 l cm), dimmable white light LEDs and six UVA tubes, 6 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

For Duo-6 (TID0R-WBG607): Combined white light and UV-transilluminator with an optical glass bandpass filter of size (18 w x 15 l cm), dimmable white light LEDs and six UVB tubes, 6 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

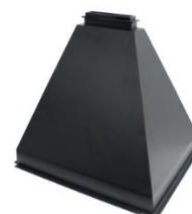
For Duo-6 (TID0R-WCG607): Combined white light and UV-transilluminator with an optical glass bandpass filter of size (18 w x 15 l cm), dimmable white light LEDs and six UVC tubes, 6 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

Duo-6 and its spares and accessories

Item Description	Cat. No.	Unit
Duo-6, with UVA tubes, ready-to-use system	TID0R-WAP607	System
Duo-6, with UVA tubes, ready-to-use system with hood	TID0R-WAG607	System
Duo-6, with UVB tubes, ready-to-use system	TID0R-WBG607	System
Duo-6, with UVC tubes, ready-to-use system	TID0R-WCG607	System
UVA tubes for Duo-6 (6 No.)	TIC0S-UA0606	Set
UVB tubes for Duo-6 (6 No.)	TIC0S-UB0606	Set
UVC tubes for Duo-6 (6 No.)	TIC0S-UC0606	Set
White light LED strip for Duo-6 (1 No.)	TIC0S-WLS006	Set
Electronic ballast for Duo-6 with wiring (2 no.)	TIC0S-BA1802	Set
Electronic LED driver and dimmer with wiring for window size 15 x 18 (1 No.)	TIC0S-DD0006	Set
Compact trapezoid dark viewing hood (for Duo-6)	TIC0S-H01518	Unit
Compact trapezoid dark viewing hood (for Duo-6) with accessories for attachment of camera	TIC0S-HC1518	Unit
Detachable binocular chromafilter (orange) eyepiece for trapezoid dark viewing hood.	TIC0S-CF0R01	Piece
Detachable binocular chromafilter (green) eyepiece for trapezoid dark viewing hood.	TIC0S-CFGN01	Piece
DSLR camera, 18 MP, CMOS sensor, with filters and software compatible with transilluminators.	TIC0S-CM0S18	Set
DSLR camera, 24 MP, CMOS sensor, with filters and software compatible with transilluminators.	TIC0S-CM0S24	Set

DUO – 8

**Dual Window, each of
size 20 (w) x 25 (l) cm
8 UVA/UVB/UVC tubes
8 White light tubes**



Duo-8
(Representational Image)

- ✓ **Dual windows: UV-transparent diffuser and white light window**
- ✓ **Chromafilter to improve the contrast of fluorescent bands and filter UV-light**
- ✓ **Compact trapezoid dark viewing hood**
- ✓ **Switch for dual intensity of UV-light**
- ✓ **Knob for changing the intensity of light from low to max for the white light**
- ✓ **Sensitivity 1 ng per band (Highly sensitive)**
- ✓ **White background for applications like viewing protein gels**
- ✓ **High-intensity LEDs for the white light**

Features of this apparatus

Rugged

- Non-brittle filter made of plastic which does not crack easily
- No solarization i.e., UV-transparency of UV-transparent diffuser window is unchanged over time
- Best quality switches and LEDs for long-term use
- Robust circuits to supply constant current to LEDs

High Sensitivity

- Visual detection limit 1 ng per compact band of EtBr-stained dsDNA due to the intensity of the UVA tubes
- UV-transparent diffuser window allows 85-90% of the UV to pass through
- Non-flickering white light
- Colour temperature of white light selected for best contrast

Safety

- No skin burns or damage to the retina. UVA tubes emit light similar to outdoor light
- Negligible photo-nicking or photo-bleaching of DNA when using UVA tubes
- UV shield to protect face and to cut off harmful rays
- Dual (Hi-Lo) mode for viewing. Go to Hi-mode only when required

Economical

- Low capital cost and spares
- Does not need costly UV-transparent violet filter
- Minimal cost of spares and accessories
- Three-year warranty for ensuring peace of mind.

Ready-to-use system includes

	TID0R-WAP809	TID0R-WAG809	TID0R-WBG809	TID0R-WCG809
1. Housing unit with a diffusing UV-transparent window and white light window	Yes	Yes	Yes	Yes
2. UV-protective cover	Yes	Yes	Yes	Yes
3. Number of tubes	8 tubes	8 tubes	8 tubes	8 tubes
4. 366nm UVA tube	Y	Y	N	N
310nm UVB tube	N	N	Y	N
254nm UVC tube	N	N	N	Y
4. White light tubes	8 tubes	8 tubes	8 tubes	6 tubes
4. A compact trapezoid dark viewing hood with chromafilter eyepiece	No	No	No	No
5. Instruction manual	Yes	Yes	Yes	Yes

Ordering description:

For Duo-8 (TID0R-WAP809): Combined white light and UV-transilluminator with diffusing UV-transparent window (20 l x 25 w cm each), dimmable white light LEDs and six UVA tubes, 8 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

For Duo-8 (TID0R-WAG809): Combined white light and UV-transilluminator with optical glass bandpass filter of size (20 l x 25 w cm), dimmable white light LEDs and six UVA tubes, 8 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

For Duo-8 (TID0R-WBG809): Combined white light and UV-transilluminator with optical glass bandpass filter of size (20 l x 25 w cm), dimmable white light LEDs and six UVB tubes, 8 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

For Duo-8 (TID0R-WCG809): Combined white light and UV-transilluminator with optical glass bandpass filter of size (20 l x 25 w cm), dimmable white light LEDs and six UVC tubes, 8 W each, Hi-Lo intensity control for UV light and trapezoid hood fitted with binocular chromafilter eyepiece.

Duo-8 and its spares and accessories

Item Description	Cat. No.	Unit
Duo-8, with UVA tubes, ready-to-use system	TID0R-WAP809	System
Duo-8, with UVA tubes, ready-to-use system with hood	TID0R-WAG809	System
Duo-8, with UVB tubes, ready-to-use system	TID0R-WBG809	System
Duo-8, with UVC tubes, ready-to-use system	TID0R-WCG809	System
UVA tubes for Duo-8 (6 No.)	TIC0S-UA0808	Set
UVB tubes for Duo-8 (6 No.)	TIC0S-UB0808	Set
UVC tubes for Duo-8 (6 No.).	TIC0S-UC0808	Set
White light LED strip for Duo-8 (1 No.).	TIC0S-WLS008	Set
Electronic ballast for Duo-8 with wiring (3 no.)	TIC0S-BA1804	Set
Electronic LED driver and dimmer with wiring for window size 20 x 25 (1 No.)	TIC0S-DD0008	
Compact trapezoid dark viewing hood (for Duo-8)	TIC0S-H02025	Unit
Compact trapezoid dark viewing hood (with ports) for Duo-8.	TIC0S-HP2025	Unit
Compact trapezoid dark viewing hood for Duo-8 with accessories for attachment of camera.	TIC0S-HC2025	Unit
Detachable binocular chromafilter (orange) eyepiece for trapezoid dark viewing hood.	TIC0S-CF0R01	Piece
Detachable binocular chromafilter (green) eyepiece for trapezoid dark viewing hood.	TIC0S-CFGN01	Piece
DSLR camera, 18 MP, CMOS sensor, with filters and software compatible with transilluminators.	TIC0S-CM0S18	Set
DSLR camera, 24 MP, CMOS sensor, with filters and software compatible with transilluminators.	TIC0S-CM0S24	Set