

*SMART SHUTTER II*  
*INSTRUCTIONS*

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QUESTIONS? CALL: 1-800-FOR-PANA (1-800-367-7262) AL MAYER Jr. OR BRIAN DANG

8-17-94



# Smart Shutter 2

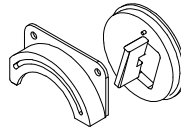
Questions? (818) 881-1702 Al Mayer Jr. or Brian Dang

## 1 Items Necessary

### 1.1 Smart Shutter Case

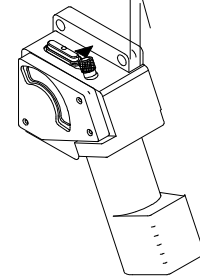
- 1.1.1 Smart Shutter Controller (SSCB2)
- 1.1.2 Smart Shutter Receiver (SSRB2)
- 1.1.3 Smart Shutter Motor (SSM)
- 1.1.4 Separate Remote Motor (SRM)
- 1.1.5 All Necessary Cables

Shutter Adjustment



Shutter Indicator

Knob "B"



Smart Shutter Motor

### 1.2 Additional Items (if necessary)

- 1.2.1 Remote F&T Motor (RFTT)
- 1.2.2 All Necessary Cables

## 2 Mounting Motors To Camera

### **Warning: Unlock Shutter Above Movement**

#### 2.1 Shutter Motor

- 2.1.1 Unlock shutter above movement (Platinum Cameras Only)
- 2.1.2 Remove shutter indicator on rear of camera
- 2.1.3 Flip shutter adjustment lever out
- 2.1.4 Mount Smart Shutter Motor (SSM) using knob "B" for alignment
- 2.1.5 Calibrate motor to camera. SEE APPENDIX A

#### 2.2 T-Stop Motors

- 2.2.1 Choice of two motors
  - a) Separate Remote Motor (SRM)
  - b) Remote F&T T-Stop Motor (RFTT)
- 2.2.2 Set lens to wide open aperture then engage T-Stop motor
- 2.2.3 Connect all cables Except for Power

\*\* If No Shutter Motor (or T-Stop Motor) is used, Do Not Mount \*\*  
 \*\* If Using Panastar I: Speed Selector On Camera Must Be Set To "R" \*\*  
 \*\* If Using Panastar II: Speed Selector On Camera Must Be Set To "000" \*\*  
 \*\* All PFX Type Cameras: No specific Action is required for Remote Mode Operation \*\*

## 3 Select One Of Three Options For Smart Shutter Operation

3.1 Camera Speed Stop Change = Shutter Stop Change &/or T-Stop Stop Change

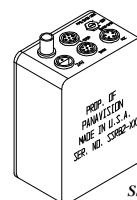
(FPS-SHTR/APER)

3.2 Depth Of Field Change (FPS constant, T-Stop Change = - Shutter Stop Change)

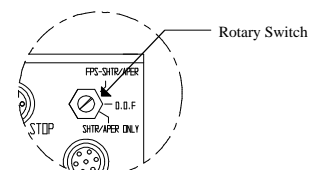
(D.O.F.)

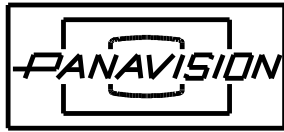
3.3 Fade in/Fade Out (FPS constant, Shutter Stop Change &/or T-Stop Stop Change)

(SHTR/APER ONLY)



SSRB2





# Smart Shutter 2

## 4 Determine Variables of Operation

**\*\* USE SMART SHUTTER WORKSHEET FOR REFERENCE \*\***  
**SEE APPENDIX B**

### **EXAMPLE 1: Speed Change With Shutter & T-Stop Compensation**

**Note: FPS Stop Change = Shutter Stop Change + T-Stop Stop Change**

Item	Range	Stops
Camera Speed (FPS)	6 to 24	2
Shutter Angle	100° to 200°	1
Lens T-Stop	T5.6 to T4	1

- 4.1 Set SSRB2 rotary switch: *FPS-SHTR/APER*
- 4.2 Set SSCB2 camera speed change: LOW 06 HI 024
- 4.3 Set SSCB2 shutter angle change: LOW 100 ° HI 200°
- 4.4 Set SSCB2 control knob to *mid range*

## 5 Power-Up of System

- 5.1 Apply power to SSRB2 using 24v source
- 5.2 Shutter Calibration (*if applicable*)
  - 5.2.1 *Smart Shutter Motor* will move camera shutter to minimum
  - 5.2.2 Shutter is automatically programmed
  - 5.2.3 T-Stop calibration follows shutter calibration
- 5.3 T-Stop Calibration (*if applicable*)
  - 5.3.1 T-Stop motor will cycle lens toward closed aperture
  - 5.3.2 When lens reaches T5.6, Press *Button "A"* and hold
    - a) Use SSCB2 control knob to dial in T5.6 exactly
    - b) Release *Button "A"*
  - 5.3.3 Lens will cycle towards open aperture
  - 5.3.4 When lens reaches T4, Press *Button "A"* and hold
    - a) Use SSCB2 control knob to dial in T4 exactly
    - b) Release *Button "A"*

**Smart Shutter is now Calibrated**



# Smart Shutter 2

## 6. **EXAMPLE 2: Speed Change With Shutter Only**

Note: FPS Stop Change = Shutter Stop Change

Item	Range	Stops
Camera Speed (FPS)	6 to 24	2
Shutter Angle	50° to 200°	2
Lens T-Stop	T5.6	0

- 6.1 Set SSRB2 rotary switch: *FPS-SHTR/APER*
- 6.2 Set SSCB2 camera speed change: LOW 06 HI 024
- 6.3 Set SSCB2 shutter angle change: LOW 50 ° HI 200°
- 6.4 Press *Button “A”* and hold for 5 seconds (see figure 5.3)

## 7. **EXAMPLE 3: Speed Change With T-Stop Only**

Note: FPS Stop Change = T-Stop Stop Change

Item	Range	Stops
Camera Speed (FPS)	6 to 24	2
Shutter Angle	200° to 200°	0
Lens T-Stop	T8 to T4	2

- 7.1 Set SSRB2 rotary switch: *FPS-SHTR/APER*
- 7.2 Set SSCB2 camera speed change: LOW 06 HI 024
- 7.3 Set SSCB2 shutter angle change: LOW 200 ° HI 200°
- 7.4 SEE SECTION 5.3
- 7.4.1 Replace line 5.3.2 & 5.3.2 (a) T5.6 with T8
- 7.5 Press *Button “A”* and hold for 5 seconds (see figure 5.3)

## 8. **EXAMPLE 4: Depth Of Field Change**

Note: Shutter Stop Change = T-Stop Stop Change

Item	Range	Stops
Camera Speed (FPS)	24 to 24	0
Shutter Angle	200° to 50°	-2
Lens T-Stop	T8 to T4	+2

- 8.1 Set SSRB2 rotary switch: *D.O.F.*
- 8.2 Set SSCB2 camera speed change: LOW 24 HI 024
- 8.3 Set SSCB2 shutter angle change: LOW 200 ° HI 50°
- 8.4 SEE SECTION 5.3
- 8.4.1 Replace line 5.3.2 & 5.3.2 (a) T5.6 with T8
- 8.5 Press *Button “A”* and hold for 5 seconds (see figure 5.3)