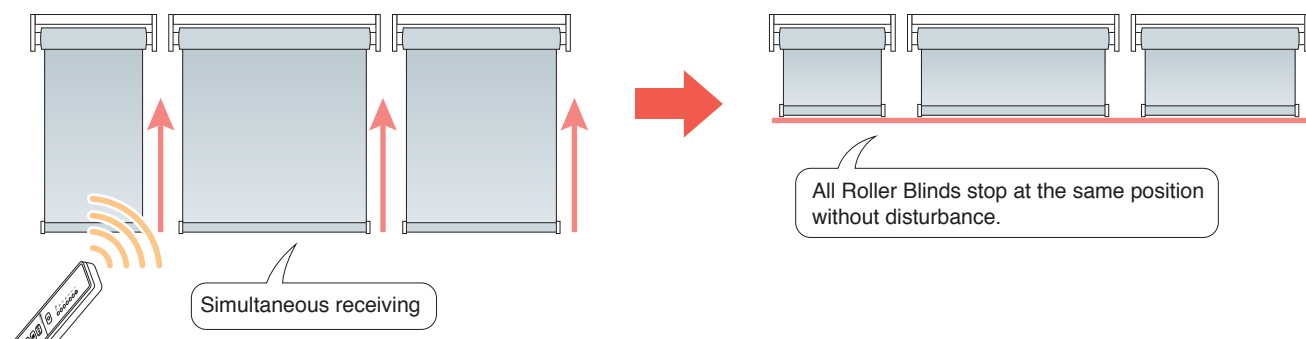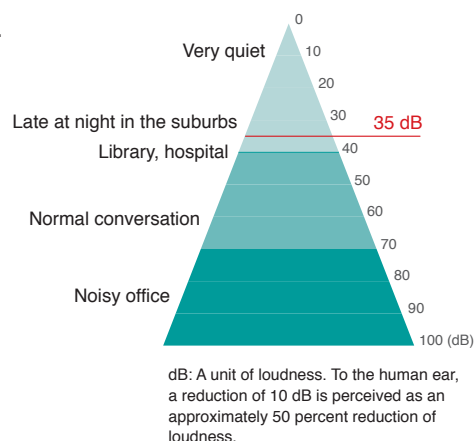Motorized Roller Blind

Mytec AT-K220

- Motorized roller blind with ultra-quiet operation.
  Its synchronous motors allow different sizes of
  roller blinds to go up and down at the same speed.

- Power consumption is drastically reduced.
  Ideal for environment-friendly buildings and offices.

- The small gap (14 mm per side) between the
  screen and main body.

- The snap bracket is available for easy installation
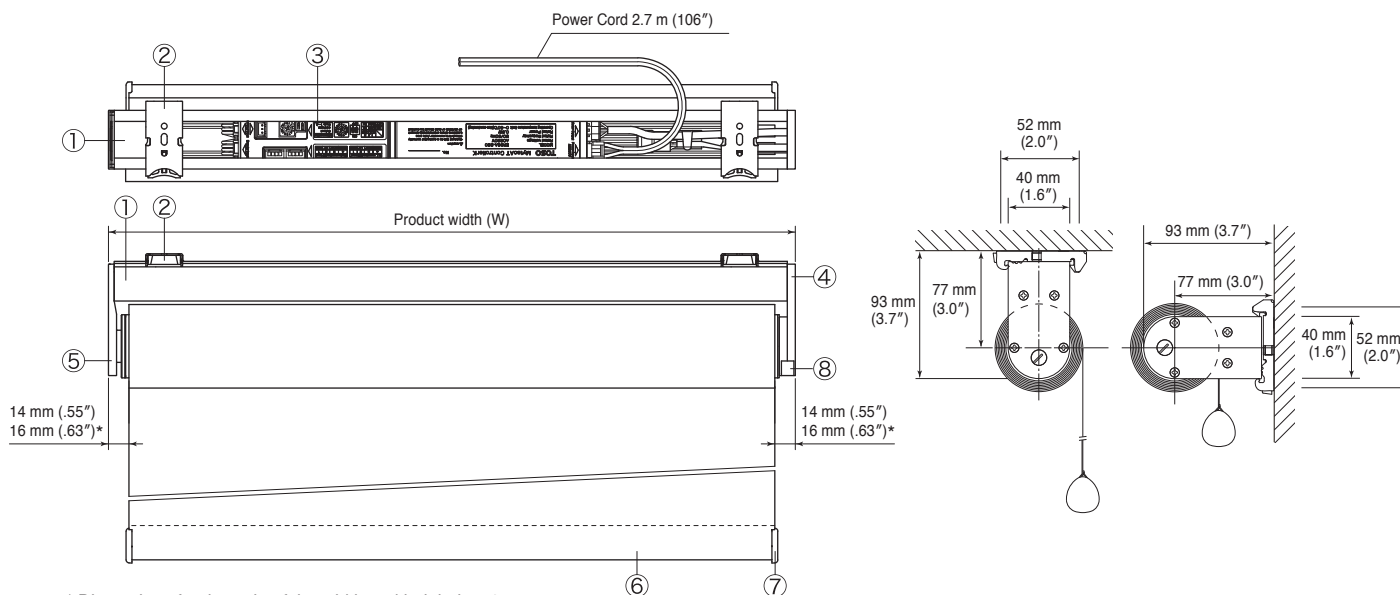 and removal.

Mytec AT-K220

Mytec AT-K220's Unique Features

- The motorized Roller Blind, Mytec AT-K220 operates noiselessly. (35 dB or less in a no-load state).

- The Controller and Infra-red Remote-control Receiver are built into the Set Bar for high visual appeal.

- The small gap (14 mm per side) between the screen and main body simplifies the design.

- The main unit is easily installed with the snap bracket.

- Less than 10 W power consumption per unit.

- Operated by the synchronous motor: Roller Blinds of different sizes and weights rise in unison when several blinds go up and down at the same time.


	0
Very quiet	10
	20
Late at night in the suburbs	30 — 35 dB
Library, hospital	40
	50
Normal conversation	60
	70
	80
Noisy office	90
	100 (dB)

dB: A unit of loudness. To the human ear, a reduction of 10 dB is perceived as an approximately 50 percent reduction of loudness.

Simultaneous receiving

All Roller Blinds stop at the same position without disturbance.

Structure Drawing

Product View

Power Cord 2.7 m (106″)

Product width (W)

52 mm (2.0″)
40 mm (1.6″)
93 mm (3.7″)
77 mm (3.0″)
77 mm (3.0″)
93 mm (3.7″)
40 mm (1.6″)
52 mm (2.0″)

14 mm (.55″)
16 mm (.63″)*

14 mm (.55″)
16 mm (.63″)*

* Dimensions for the ratio of the width and height is 1:3 or more.

Components and Materials

No.	Components	Material
①	MTAT Set Bar	Aluminum
②	MT03 Bracket	Steel, Molded resin
③	MTAT Main Controller	—
④	Side Holder Receiver Side	Steel, Molded resin

No.	Components	Material
⑤	Side Holder	Steel, Molded resin
⑥	MT03 Weight Bar	Molded resin
⑦	MT03 Weight Bar Cap	Molded resin
⑧	Infra-red Remote-Control Receiver	Molded resin

Bracket

25 mm (.98″)

11 mm (.43″)   12 mm (.47″)

52 mm (2.0″)

18 mm (.71″)

27 mm (1.1″)
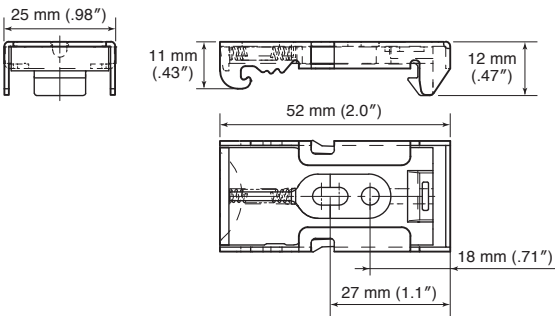
Product Width	Number of Bracket
1400 mm (55″) or less	2
1405 mm (55″) –2000 mm (79″)	3
2005 mm (79″) or more	4

Weight Bar
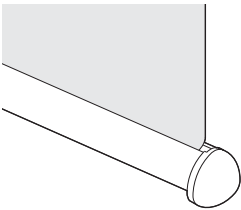
Non wrapping type   Wrapping type
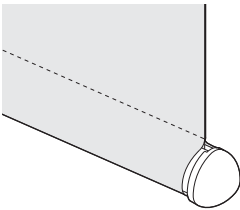
Motor Specifications

Rated voltage	AC220V
Rated frequency	50/60Hz
Power consumption	During standby 1W/During operation 9W
Operating voltage	DC5V
Operating current	1mA

Rated frequency	21/25rpm
Working temperature range	0–50°C (No condensation)
Rated time	Continuous operation 2 minutes

Allowable Size

Width	600–2400 mm (24–94″)
Height	500–3000 mm (20–118″)
Ratio (W:H)	1:8 (limit)

*Depending on the screen weight and material.

Product Weight

4.1 kg (9.0 lb)
(width: 2000 mm/79″ without screen)
*When using Balancer N

Mytec AT-K220

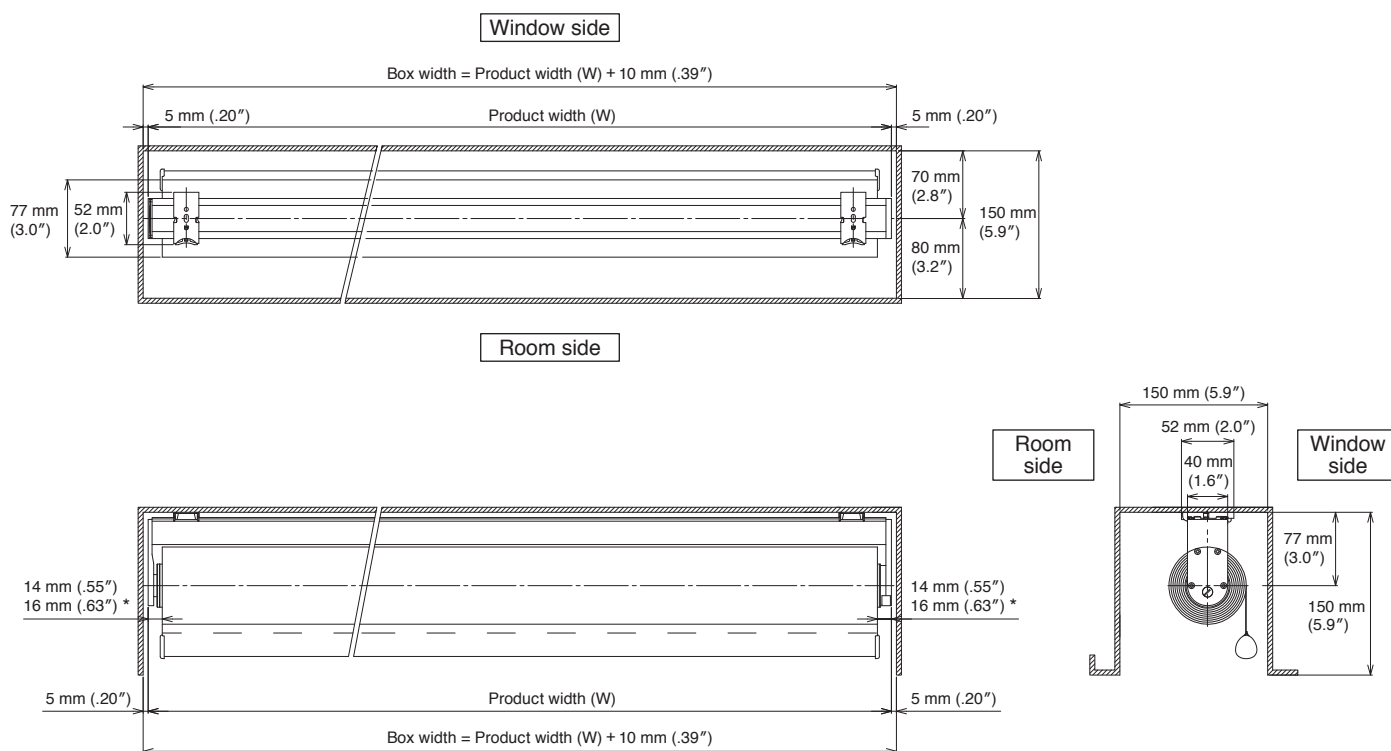## Typical Roll-up Diameter

Ceiling attachment	Wall attachment
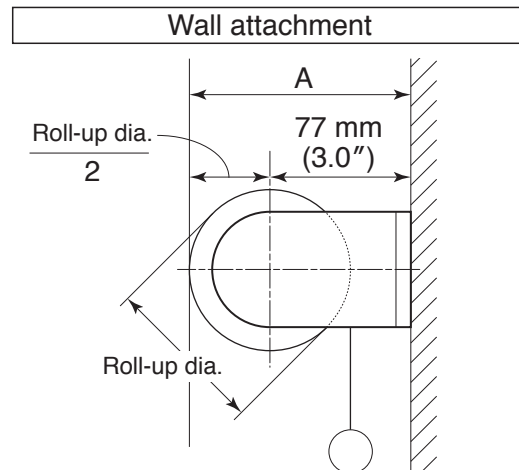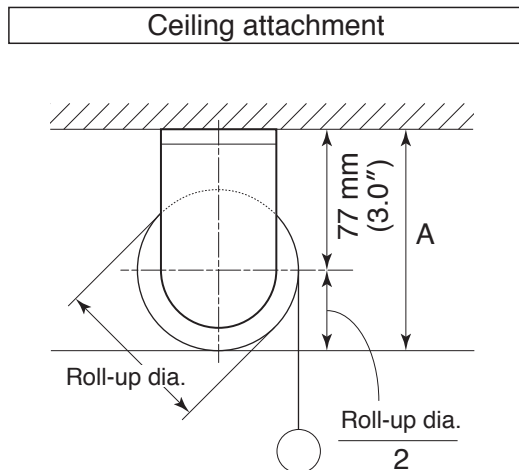
$$A = 77 + \frac{\text{Roll-up dia.}}{2}$$

Class (Thickness)	Height	400 mm (16″)	800 mm (32″)	1200 mm (47″)	1600 mm (63″)	2000 mm (79″)	2400 mm (94″)	2800 mm (110″)	3000 mm (118″)
A	–0.20 mm (–.008″)	46 mm (1.8″)	47 mm (1.9″)	48 mm (1.9″)	50 mm (2.0″)	51 mm (2.0″)	52 mm (2.0″)	53 mm (2.1″)	53 mm (2.1″)
B	0.21–0.30 mm (.008–.012″)	47 mm (1.9″)	49 mm (1.9″)	50 mm (2.0″)	52 mm (2.0″)	53 mm (2.1″)	55 mm (2.2″)	56 mm (2.2″)	57 mm (2.2″)
C	0.31–0.40 mm (.012–.016″)	48 mm (1.9″)	50 mm (2.0″)	52 mm (2.0″)	54 mm (2.1″)	56 mm (2.2″)	58 mm (2.3″)	60 mm (2.4″)	60 mm (2.4″)
D	0.41–0.50 mm (.016–.020″)	49 mm (1.9″)	51 mm (2.0″)	54 mm (2.1″)	56 mm (2.2″)	59 mm (2.3″)	61 mm (2.4″)	63 mm (2.4″)	64 mm (2.5″)
E	0.51–0.60 mm (.020–.024″)	50 mm (2.0″)	53 mm (2.1″)	56 mm (2.2″)	58 mm (2.3″)	61 mm (2.4″)	63 mm (2.4″)	66 mm (2.6″)	67 mm (2.6″)
F	0.61–0.70 mm (.024–.028″)	50 mm (2.0″)	54 mm (2.1″)	57 mm (2.2″)	60 mm (2.4″)	63 mm (2.4″)	66 mm (2.6″)	69 mm (2.7″)	70 mm (2.8″)
G	0.71–0.80 mm (.028–.032″)	51 mm (2.0″)	55 mm (2.2″)	59 mm (2.3″)	62 mm (2.4″)	65 mm (2.6″)	69 mm (2.7″)	72 mm (2.8″)	73 mm (2.9″)
H	0.81–0.90 mm (.032–.035″)	52 mm (2.0″)	56 mm (2.2″)	60 mm (2.4″)	64 mm (2.5″)	68 mm (2.7″)	71 mm (2.8″)	74 mm (2.9″)	—
I	0.91–1.00 mm (.036–.039″)	53 mm (2.1″)	57 mm (2.2″)	62 mm (2.4″)	66 mm (2.6″)	70 mm (2.8″)	73 mm (2.9″)	—	—

*The roll-up diameter might be actually different.
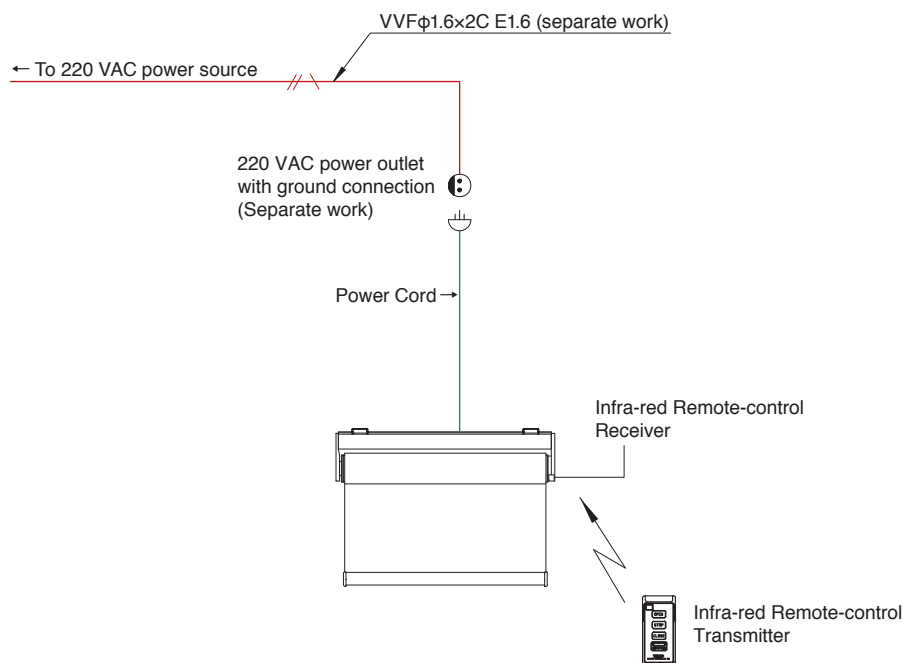*Please contact our local agent for another size.

Overall Structure Drawing

Window side

Box width = Product width (W) + 10 mm (.39″)

5 mm (.20″)   Product width (W)   5 mm (.20″)

77 mm (3.0″)   52 mm (2.0″)

70 mm (2.8″)

150 mm (5.9″)

80 mm (3.2″)

Room side

14 mm (.55″)
16 mm (.63″) *

14 mm (.55″)
16 mm (.63″) *

5 mm (.20″)   Product width (W)   5 mm (.20″)

Box width = Product width (W) + 10 mm (.39″)

150 mm (5.9″)

52 mm (2.0″)

40 mm (1.6″)

Room side   Window side

77 mm (3.0″)

150 mm (5.9″)

* Dimensions for the ratio of the width and height is 1:3 or more.

Basic Wiring and Connecting Diagram

Infra-red Remote-control Operation

Basic Wiring Diagram

VVFφ1.6×2C E1.6 (separate work)

← To 220 VAC power source

220 VAC power outlet
with ground connection
(Separate work)

Power Cord →

Infra-red Remote-control
Receiver

Infra-red Remote-control
Transmitter

FM Remote-control Operation

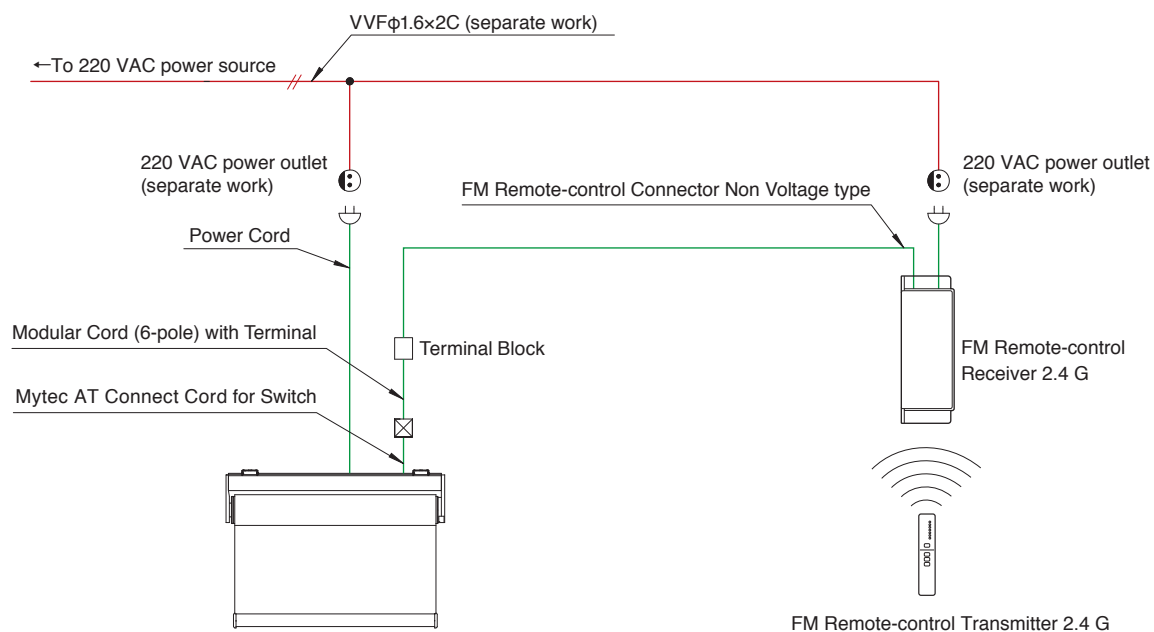*When using FM Remote-control Receiver 2.4 G-IR

Basic Wiring Diagram
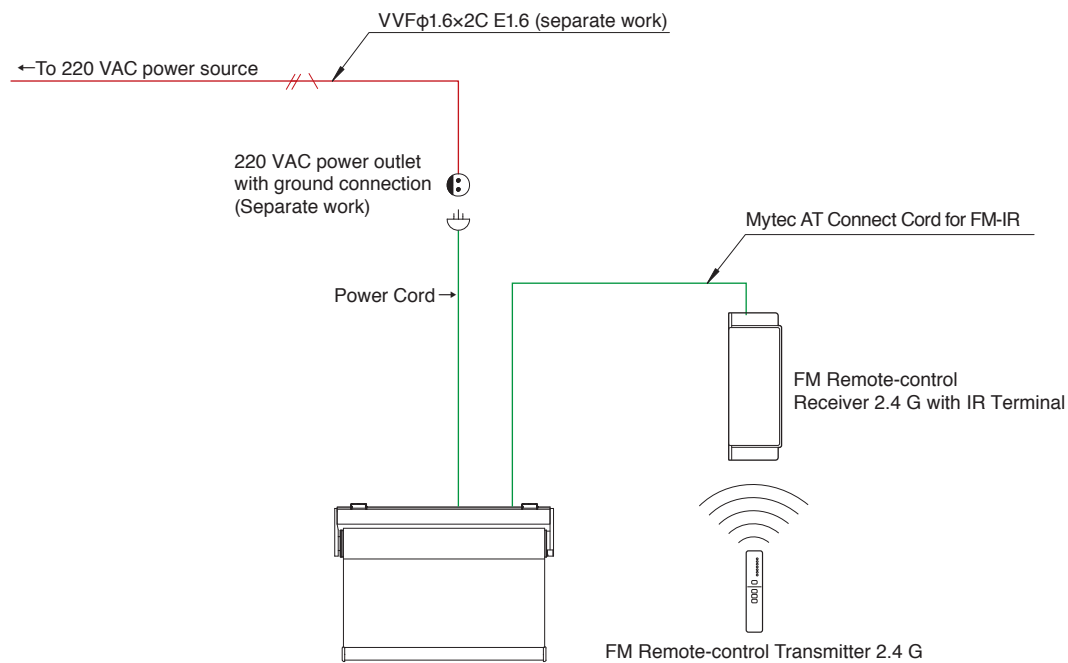
VVFφ1.6×2C E1.6 (separate work)

←To 220 VAC power source

220 VAC power outlet
with ground connection
(Separate work)

Mytec AT Connect Cord for FM-IR

Power Cord →

FM Remote-control
Receiver 2.4 G with IR Terminal

FM Remote-control Transmitter 2.4 G

Explanatory notes: —— Power supply, —— Low voltage control line, —— Main body attachment or TOSO standard

FM Remote-control Operation

Basic Wiring Diagram

VVFφ1.6×2C (separate work)

←To 220 VAC power source

220 VAC power outlet
(separate work)

FM Remote-control Connector Non Voltage type

220 VAC power outlet
(separate work)

Power Cord

Modular Cord (6-pole) with Terminal

Terminal Block

FM Remote-control
Receiver 2.4 G

Mytec AT Connect Cord for Switch

FM Remote-control Transmitter 2.4 G

Basic Connecting Diagram

←To 220 VAC power source

Yellow	Green
Green	Black
Red	White
Black	Red

Terminal Block

FM Remote-control
Receiver 2.4 G

FM Remote-control Transmitter 2.4 G

3-Button Switch Operation
Single Operation

Basic Wiring Diagram
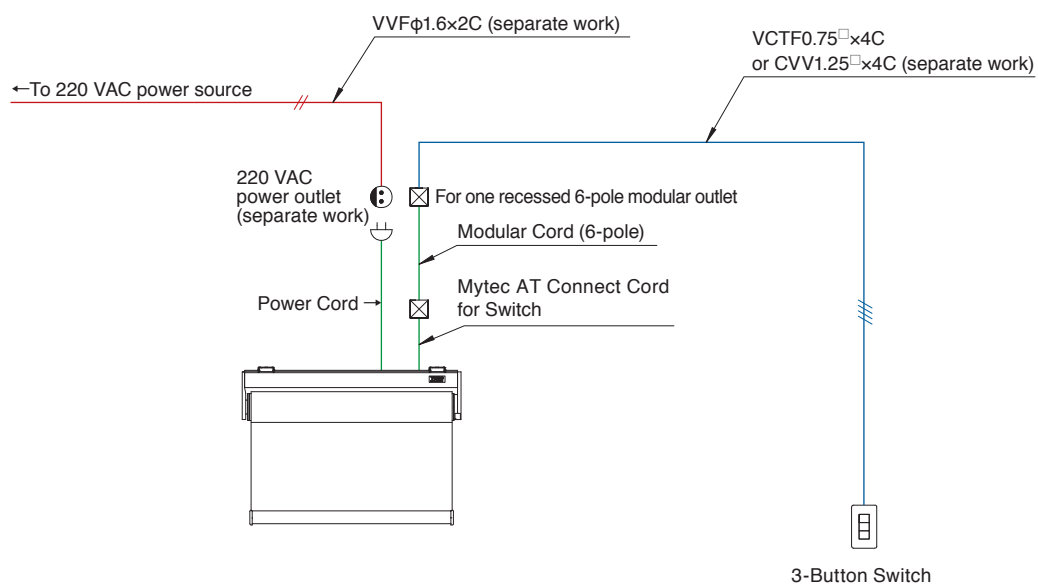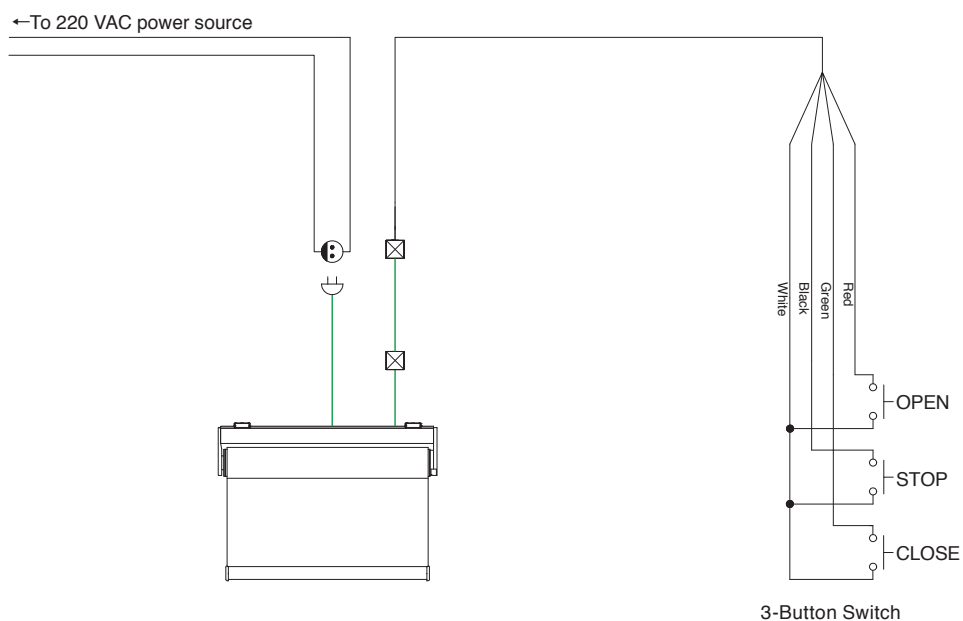
VVFφ1.6×2C (separate work)

VCTF0.75□×4C
or CVV1.25□×4C (separate work)

←To 220 VAC power source

220 VAC
power outlet
(separate work)

For one recessed 6-pole modular outlet

Modular Cord (6-pole)

Power Cord →

Mytec AT Connect Cord
for Switch

3-Button Switch

Basic Connecting Diagram

←To 220 VAC power source

White

Black

Green

Red

OPEN

STOP

CLOSE

3-Button Switch

Explanatory notes: —— Power supply, —— Low voltage control line, —— Main body attachment or TOSO standard

8

Simultaneous Operation

Basic Wiring Diagram

VVFφ1.6×2C (separate work)

VCTF0.75□×4C or CVV1.25□×4C (separate work)

←To 220 VAC power source

220 VAC
power outlet
(separate work)

⊠ For one recessed 6-pole modular outlet

Modular Cord (6-pole)

Power Cord→ ⊠ Mytec AT Connect Cord for Switch

3-Button Switch

Basic Connecting Diagram

←To 220 VAC power source

Red
Green
Black
White

Red
Green
Black
White

Red
Green
Black
White

White
Black
Green
Red

OPEN

STOP

CLOSE

3-Button Switch
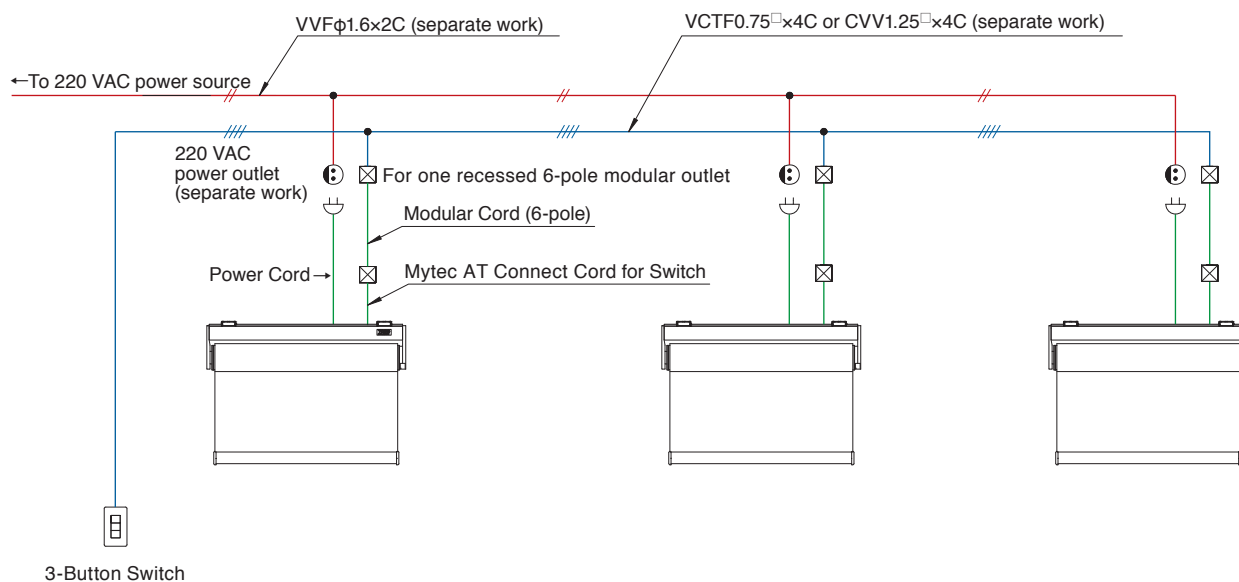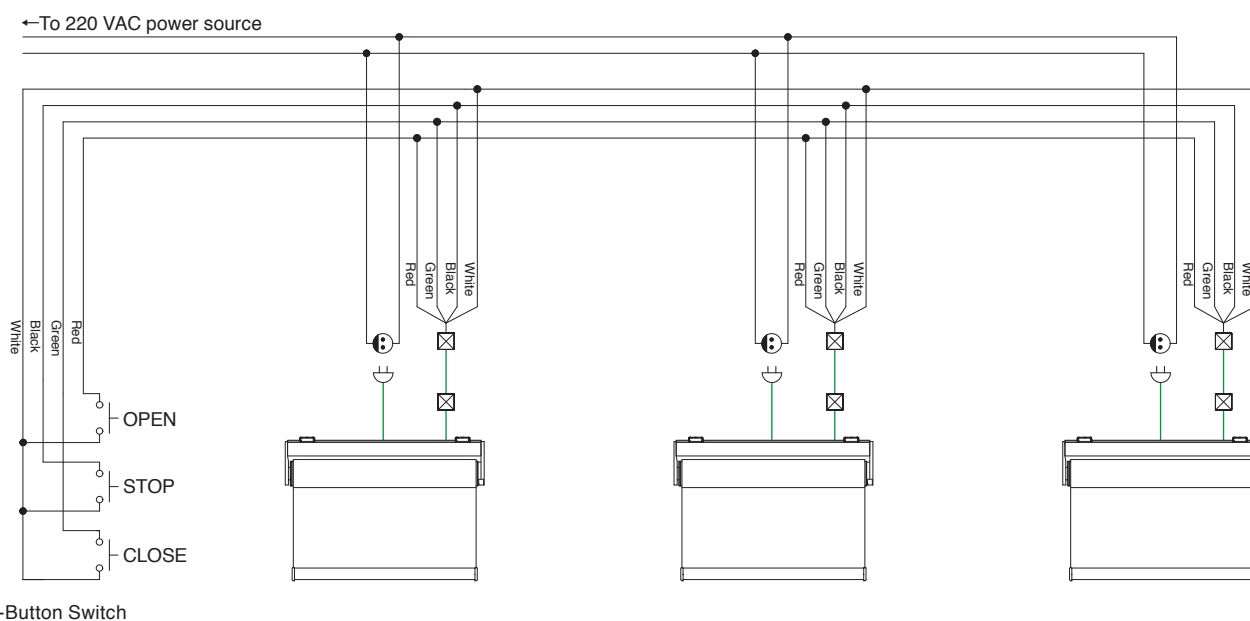
Simultaneous Selection Operation

Basic Wiring Diagram
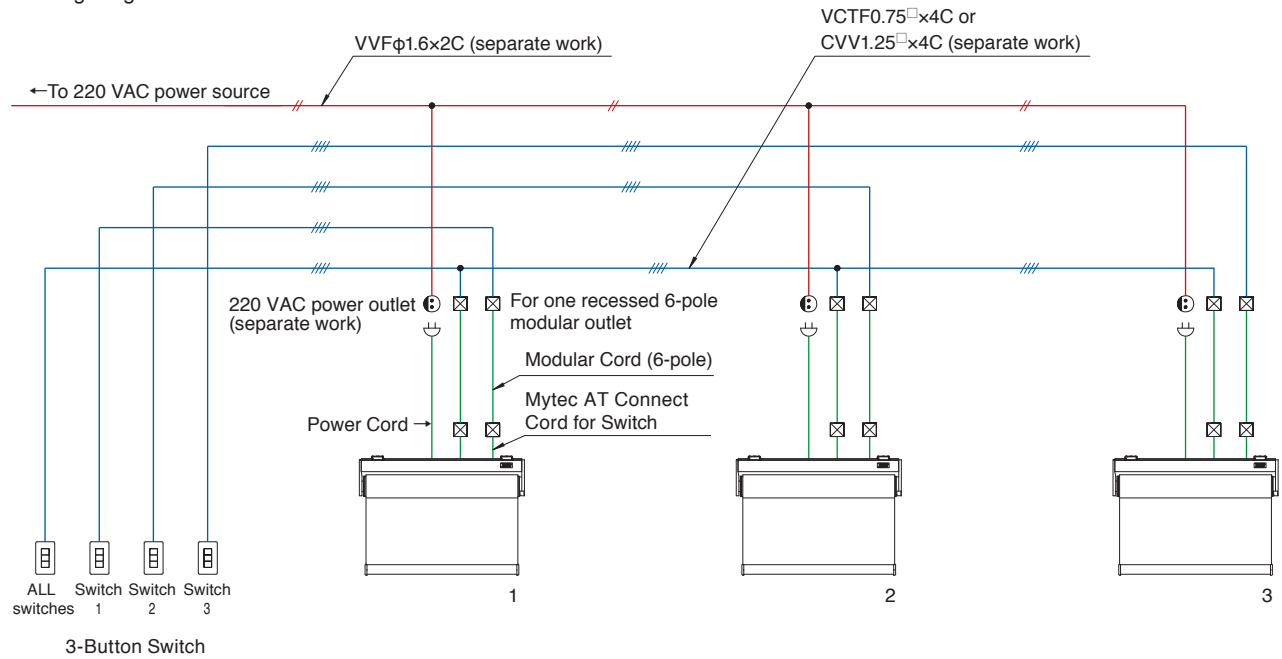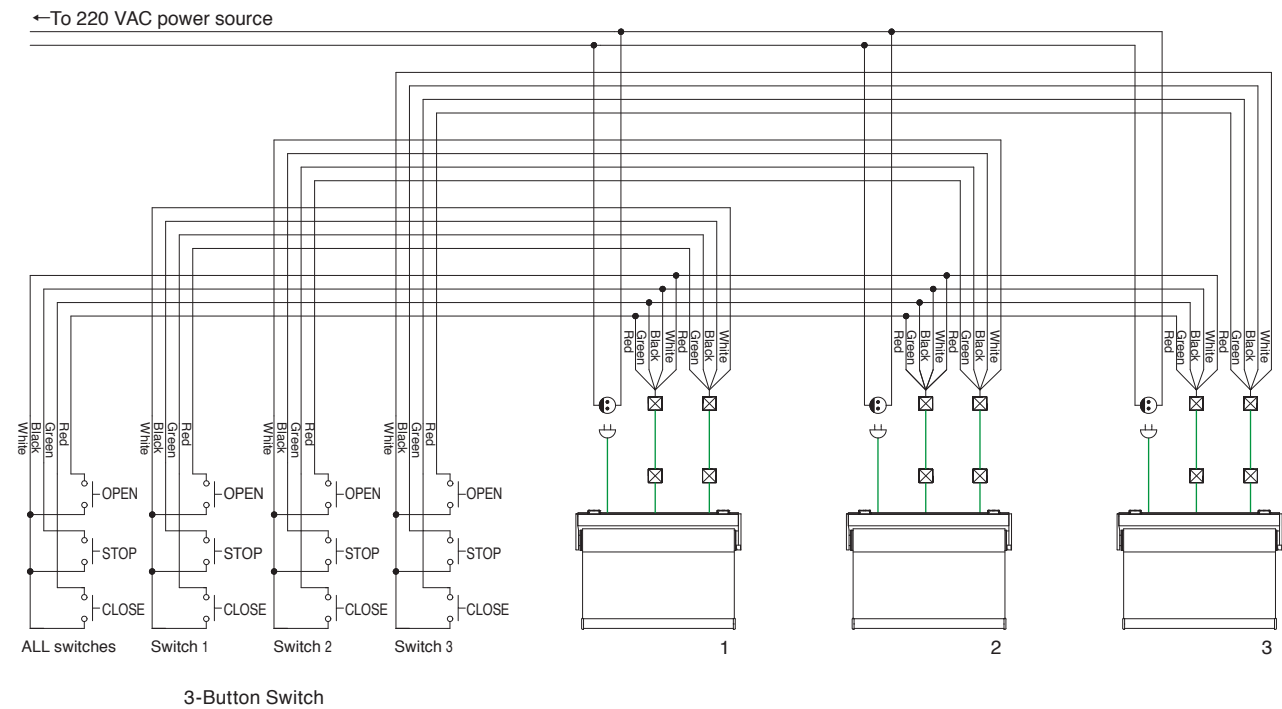
VVFφ1.6×2C (separate work)

VCTF0.75□×4C or
CVV1.25□×4C (separate work)

←To 220 VAC power source

220 VAC power outlet
(separate work)

For one recessed 6-pole
modular outlet

Modular Cord (6-pole)

Power Cord →

Mytec AT Connect
Cord for Switch

ALL switches | Switch 1 | Switch 2 | Switch 3

1   2   3

3-Button Switch

Basic Connecting Diagram

←To 220 VAC power source

Red Green Black White

OPEN
STOP
CLOSE

ALL switches   Switch 1   Switch 2   Switch 3

1   2   3

3-Button Switch

Explanatory notes: ——— Power supply, ——— Low voltage control line, ——— Main body attachment or TOSO standard
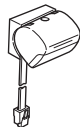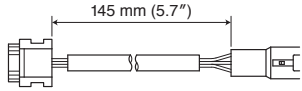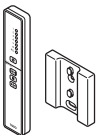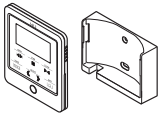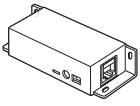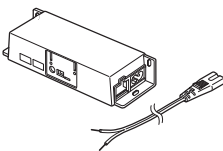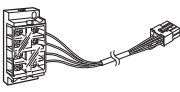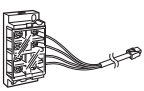
Mytec AT-K220 Body

Product Name
Mytec AT-K220
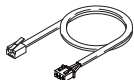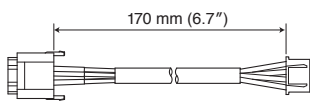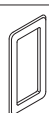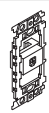
*Cord length: 2.7 m (106″)

Mytec AT-K220 Parts

Product Name	Operation				Product Code
	Infra-red Remote-Control Receiver	FM Remote-Control Receiver 2.4G with IR	FM Remote-Control Receiver 2.4G	3-Button Switch	
Infra-red Remote-Control Receiver 01 *Use if the receiver part is not exposed. *Cord length: 0.7 m (28″) *Available changing angle approx. 60˚.	◯ (*1)	—	—	—	00510184
Infra-red Receiver 01 Connect Cord 145 mm (5.7″) *Use if the receiver part is not exposed.	◯ (*1)	—	—	—	04800002
Infra-red Remote-Control Transmitter 01N	◯ (*2)	—	—	—	00510297
Infra-red Remote-Control Transmitter 02		—	—	—	00510281
FM Remote-Control Transmitter 2.4G	—	◯ (*2)	◯ (*2)	—	02390040
FM Multi Remote-Control Transmitter 2.4G	—			—	30006411
FM Remote-Control Receiver 2.4G with IR Terminal	—	◯	—	—	02390042
FM Remote-Control Receiver 2.4G	—	—	◯	—	02390043
FM Remote-Control Connector (Non Voltage type)	—	—	◯	—	02390036
Modular Cord (6-pole, 4-core) with Terminal	—	—	◯	—	00510229

*1 Use if necessary.
*2 Use one of the transmitters.

Product Name	Operation				Product Code
	Infra-red Remote-Control Receiver	FM Remote-Control Receiver 2.4G with IR	FM Remote-Control Receiver 2.4G	3-Button Switch	
Mytec AT Connect Cord for FM-IR *Cord length: 0.7 m (28″)	—	◯	—	—	30005768
Mytec AT Connect Cord for Switch 170 mm (6.7″)	—	—	◯	◯	30006833
MO Inlay Switch Wide 3 Buttons A	—	—	—	◯	00510307
MO Wide Switch Wide Plate 1 Row	—	—	—	◯	00510309
Modular Cord 1 m (6-pole, 4-core)	—	—	—	◯	02380002
Inlay Modular Connector (6-pole) Body 1 Jack	—	—	—	◯	00510269
MO Switch Plate 1 Button 1 Row	—	—	—	◯	00510259

201602E