

User Manual

mTS1000 Series Tripod Turnstile

Date: December 2021

Doc Version: 1.0

English

avo'y ° t° qv°° wu ° ©°r q2Xz os sor vs w qw' qst z
pst° s °©s o w' 2N°z° vs s w qw' ° s' s vo vs ©°r q w
t ' q w' wu ©°©s z 2avs w ous v° ' w vw | o' oz os t° w ows
© © s °' z 2



N° t vs rs o w 0 ©z os ww ° K° | ©o' + sp ws
[2y sq 2° | 2](#)

K°© wv 6465 gSaMKWKWDTaL 2Hz wv s s sr 2

d w° vs ©w ws' q' s' °tgSasq' 0' ° © w' °t vw| o' ozqo' ps q' ©wr ° t° orsr w o' o ° t° | 2Hz© °t vw| o' ozpsz' u ° gSasq' o' r w p w w w ,vs swot s vs &° | ©o' &° &gSasq' &2

a or s| o y

ZKTECO wo suws sr ors| o y °tgSasq' 2W vs ors| o y w °z sr w vw| o' ozos ° 'sr p vsw s ©sqws ° 's 2

L wqz w s

avw| o' ozq' ow wt° | ow' °' vs °©s ow' o' r | ow s' o' q° °t vs gSasq' s w| s' 2avs q' © wv w oz vs r° q | s' Or o wu Os q2w sz w' ° vs gSasq' ©©zsr s w| s' s w o' r w vs °©s °tgSasq' 2avs q' s' vs s°t v° x' ° ps sr ° vosr p vs sqs ws w o' vwr ©o w° s ©s ws' ©s | w w' °tgSasq' 2

avs q' s' °t vw| o' oz| ps sor o o v°z pst° s o wu vs °©s ow' o' r | ow s' o' q° °t vs ©©zsr s w| s' 2Qo' °t vs q' s' , - °t vs | o' oz ss| 'qso ° wq| ©s s0©zo s q' oq gSasq' pst° s o wu vs °©s ow' o' r | ow s' o' q° °t vs ows w| s' 2

Q w o' s s' w z ©s1s wws t° vs o wtoq° °©s ow' o' r | ow s' o' q° vo vs °©s owu o' r | ow s' o' q° ©s °''szos t z to| w w vs rs w' o' r vo vs ow ©s °''szvos sqswr v° ° uv ow wu w °©s owu o' r | ow ow wu vs | oqvws3' w3 w| s' 2Qwt vs s s' wzt° vs ots °©s ow' °t vs | oqvws3' w3 w| s' vo ©s °''szvo sor0' rs °°r o' r t°z sr vs ots w q w' q' owsr w vs | o' oz

Q qo s °t o' q' t z q ps ss' s | o' r q' r w w' °t vw| o' oz o' r vs q' oq ©sqw w' 0 r o wu 0w q w' vss ° o' ° vs q' oq1sz sr r° q | s' 0 vs q' oq q' r w w' 3° q | s' vozz©s w z avs q' oq ©sqw q' r w w' 3° q | s' vozzo©z w ©w w 2

gSasq' °tts '° o o' Ou o o' ss ° s©s s' ow' suorwu vs q' | ©s s' s °t o' wt° | ow' q' owsr w vw| o' oz° o' °t vs o| s' r | s' | ors vs s°2gSasq' r°s '° s s' r vs o o' °t o' ywr 0w qz r wu0 w° z w w' 0o' o o' °trs w' 0| s qvo' op w ° tw s t° o©o w z © © s2

gSasq' r°s '° o | s s ©' w w t° o' s ° ° | w w' w vs wt° | ow' ° r° q | s' v w v os sts s' qsr p ° z w ysr ° vw| o' oz avs s' ws wy o ° vs s z o' r ©s t° | o' q° °p owsr t° | wu vs wt° | ow' wo | sr p vs s 2

gSasq' w' ° s s' vozzps zops ° vs s ° o' vwr ©o t° o' w qws' oz q' s s' w z w r w s q 0 ©sqw ° s s | ©z r o| ous 0w qz r wu0 w° z w w' 0z °t p ws 0z °t °°tw 0p ws w s ©w' 0z °t p ws wt° | ow' ° o' ©sq' w z 0owwu ° °t 0w q' 'sq w' w 0°

szo wu ° vs s ° t vs wt° | o w' q' o wsr w ° sts s' qsr p vw | o' ozd s' w gSasq° vo pss' or wsr ° t vs ° v w v ° t qv r o | ous 2

avw | o' oz o' r vs wt° | o w' q' o wsr vs sw | o w q r s sqv' w p o ° vs w o q q o q w ° ° u o v w p o z s ° 2gSasq° s w r w p o z q v o' us vs wt° | o w' vs sw v w v w z p s w q ° ° o s r w ° ' s o r r w w' 3o | s' r | s' ° vs | o' o z 2gSasq° s s s vs w w v ° o r r 0 r s z s 0 o | s' r ° | ° r w vs wt° | o w' q' o wsr w vs | o' o z t ° | w s ° w s w v s t ° | ° t q w q z o 0 z s 0 ° s 0 s q z t ° p s s ° s o w' o' r o t s ° t vs | o q v w s 3 ' w z s w | s' 2 a v s o w o r r w w' ° o | s' r | s' o s | s o' t ° w ° s | s' 3 p s s ° s o w' ° t vs | o q v w s 3 ' w z s w | s' o' r q v o | s' r | s' v o z z' ° u w s o' w w v ° q w v o' q' | s' o w' ° r o | ous ' r s o' q w q | o' q s 2

gSasq° v o z z w ' ° o p s s ° ' w z s , Q w q o s vs | o q v w s 3 ' w z s w | s' | o z ' q w' r s ° o' ' ° ' 1 q' | o z o' q s ° t vs w q w' q' o wsr w vw | o' o z , w w q o s ° t ° s o w' ° t vs | o q v w s 3 ' w z s w | s' p s ° ' r vs o s z w , w w w q o s ° t ° s o w' ° t vs | o q v w s o' r s w | s' w q' r w w' r w t s s' t ° | v s ° s q w s r q' r w w' ° t vs | o' o z 2

av s ° r q w z p s o r o s r t ° | w s ° w s w w ° ° w ' ° w s 2 a v s z o s ° s o w' ° ° q s r s o' r s z o' r ° q | s' o s o o w p z s ° ' v ° A 3 2 y s q ° 2 ° |

Q vs s w o' w s s z o s r ° vs ° r q 0 z o s q' o q 2

gSasq° Psor o s

Hr r s gSasq° Qr w z X o y 0 V ° 2760 Q r w z [° o r 0

ao' u w a ° ' 0 L ° ' u u o' 0 K v w o 2

Xv ° ' s / >: <: @ 1 > 654 @ a 5

Nb / >: < 99 1 > @ 467 @ 8

N° p w s 1 s z o s r s w 0 z o s w s ° o A o z G y s q ° 2 ° | 2

a° y' ° | ° s o p ° ° u z p o z p o' q v s 0 w w 2 y s q ° 2 ° | 2

Hp° vs K° | ©°

gSasq° w°'s °t vs ° z+z us | o' toq s °t [N o' r l w | s w ,Nvus ©w 0Nqoz 0Nvus 1sw-
sors 2X°r q °tts wu wqz rs Hqps K°' °z sors o' r ©° sz0Vso * No 1o' us Noqoz [sq° u' ww'
Ko| s o 0Ms o° 3t° oqps q°' °zs 0a ' vs 0Tps' s Xz s [sq° u' ww' ,TX[- uo s q°' °zs o' r
K°' | s ©°r q wqz rwu po s P°s osr twus ©w o' r toqs 1sors L°° T° qy 2W sq w
°z w' os | zv wu oz o' r z opzsr w° s 5> r vts s' zo' u ous 2H vs gSasq° os P°t1vs lo
<44044 ost° QW@4451q wsr | o' toq wu toq w 0 s q°' °z | o' toq wu 0©°r q rs w' 0
q° | ©°' s' o s | pz 0o' r z uw w 3 v w w u 0 o z z ' rs °' s °°t2

avst° 'rs °tgSasq° vo s pss' r s s | wsr t° wrs ©s' rs' s so qv o' r rs sz © | s' °tpw | s w
s w w w' ©° qsr s o' r vs ©°r q w w' °tpw | s w s w w w']LS0 v w v o w w w z w sz
o©©zsr w XK sq w o' r ws' w o vs' w w' tsz 2dw vs q°' w ° s' vo' q s | s' °t vs
rs sz © | s' o' r ©z' °t | oys o©©z w' 0 vs so | vo u or o z z q°' qsr o' ws' w
o vs' w w' sq s | o' r | o sq w sq s | 0 v w v os posr °' pw | s w s w w w' w
sqv' w s 2 dw so °ts ©s w' q s w vs wr w w w' °tpw | s w s w w w' 0gSasq° o
°ttw z s opzsr w 644<o' r '° vo pss' °' s °t vs u z po z z or wu s' s ©ws w vs pw | s w
s w w w' wr ° 'wu o w ©os' o' r ps wu sz qsr o vs Vo w' oz P w v 1sqv M s ©ws t° :
q°' sq ws so 2Q ©°r q os ©° sqsr p w szsq oz ©°Cs wv 2

Hp° vs Uo' oz

avw | o' ozw °r q s vs °Cs o w' °t m l ><<<l m m 2

Hzztw s rw©z sr ost° w o w' © © s °' z 2Nw s w vw | o' oz | o '° ps s oqz q°' ws'
w vs oq oz ©°r q 2

No s o' r ©o | s s w ★ os '° o w p z w ozr s w s 2

L°q | s' K°' s' ŵ'

K°' s' ŵ' sr ŵ vw | o' ozo s zw sr psz A

ObQ°' s' ŵ'

W I	
T	U
S	b sr ° ws' ŵ ° t os ŵ s toq s' o s s 2 2 g c 0 T 0 T 2
O	U zw sz s' os s o o sr p vs s p o q s 2 N° s o c z 0 N s E K s o s E N° z s 2
W U	
T	U
MO	I °' ° ys ' o s t° rs w s 2 N° s o c z 0 c s CWSE2
uw	d wr° ' o s 0 s' ws 0 ro o op z 0 o' r t w z ' o s os ŵ w s os p o q s 2 N° s o c z 0 c° c° vs H s b s k wr° 2
:	U zw sz s' os s o o sr p t° or ŵ u z vs 2 N° s o c z 0 H s 3 K s o s 3 N° z s k 2

] | p°z

T	U
	avw s o s s' o' ° s vo ' ssr ° c o ° s o s' ŵ' ° 2
	avs us' s oz wt° o ŵ' v w v s z° ŵ c s t° ŵ u vs ° c s o ŵ' to s 2
	avs wt° o ŵ' v w v w ŵ' w p' 2
	Ko s oys' ° o ° w r o' us ° w oys 2
	avs os s' ° s s' vo o' ° t ° s v ŵ u° vo s s o o q p ŵ' o s o c z 2

w d

>	g o V k o a / p	F
1.1	g f b w y u f v	P
1.2	b s s f b u b p d f b p e v v w f o d r o s r p f p w	Q
	I R K R b s s f b u b p d f	Q
	I R K R v v w f o d r o s r p f p w	Q
1.3	o f d i b p l d b n v v w f o	R
1.4	f n f d w u r p l d d r p w u r n v v w f o	R
1.5	r u m p h S u l p d l e n f	R
1.6	r u m p h O r e f v r g w i f v v w f o	I H
1.7	w f d i p l d b n V s f d l g l d b w k r p v	I H
A	W h f T n a g f a f n k g U n T n a g f	>>
2.1	g l p h f u s u l p w f u l g l d b w k r p	I I
2.2	d b u e f u l g l d b w k r p	I K
2.3	t u d r e f f u l g l d b w k r p	I L
2.4	k u f e U f o r w f d r p w u r n ★	I M
2.5	k u f n f v v U f o r w f d r p w u r n ★	I O
B	p a k a f [U a R [k R e	>G
C	h R T c a f [d a l m	>I

r

avs | a]5444]s w w°'s ywr °tgSasq°+ w'° ows s| wlo °| o wq w°r ' w s w 0ww
 | ors °t]b]748] o w s] ss d w vs oq zq Co' sz°' vs °© v w w pso w z w o©so o' q s
 o' r q s o' o' r w o' w 2avs °© q° s Co' sz°t vs | a]5444]s w w su osr us' s oz oqps
 q°' °zwq °| wopz oq q° r w u ° r w t s s' s w w o w' | °rs 2avs | a]5444]s w ' | °° vz
 o' r w z o' r q°' | s z w z ° s vo' y ° w | o z z o' r q° | Coq p°r rs w' 2

avs | a]5444]s w w°r o| os' ° | o z z vs x w o z q y s r ° w w' 0wu o' z u o z o q p s ° vs
 o v° wsr ©s °' o' r s w w z u o z o q p s 2d vs' o o z w Kor 3 w u s © w 3 Z[q°r s w r s s q s r 0
 o| ' z q y o' r o °| o w p o z z ° o s o o z w v © v 2 L w u s | s u s' q w o' r ° s ° o u s vs
 w°r o| q° | Co z s z q° z o © s 0 vs z q y w z s z o s ° o z z to s o q o w' o' r s u s 0 vs s p
 s' w u s N H | a ' s' q | p s s r s w ° o t s 2d vs' vs ° s w °' 0 vs o | w z o ° | o w p o z z
 z w © ° t° | o s q s z° s 2



1.1 g

U K° | Coq p°r 0 vs r s w s ' | °° vz 0 w s' z o' r q°' | s z w z ° s 2

T I K] Co° vs q° ' °t vs' | ps °t © s ° Co z Qp° ' r o' r W p° ' r 2

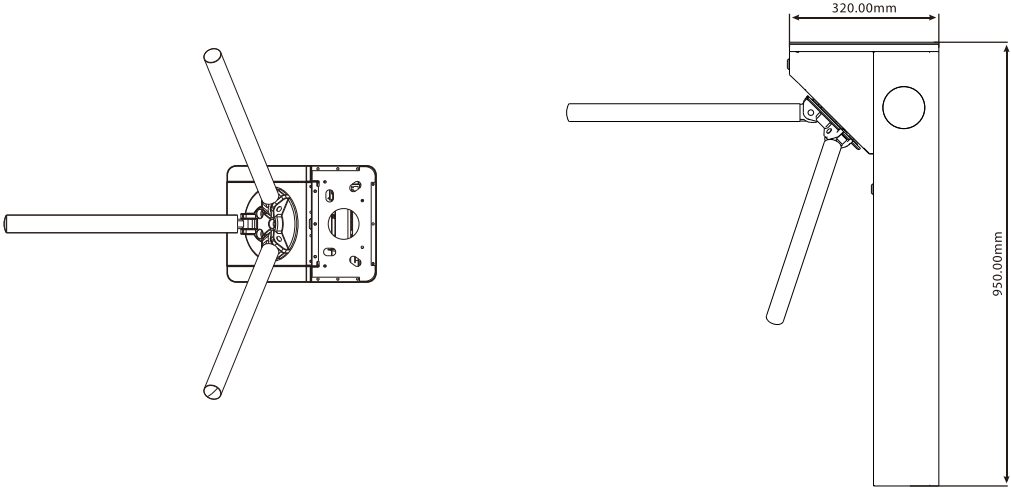
o e K U z w z o vs' w o w' | s v°r 0 q°' s' w' o' r s q s 2

[W K] Co° o' w Co p o q y o' r t w s | °rs 2

1.2 b v d

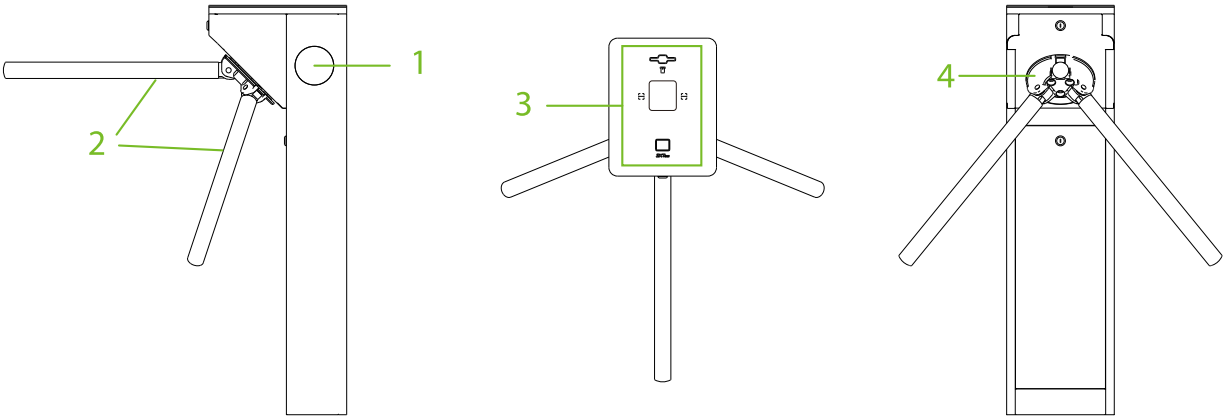
I KKK b

avs o©©so o' qş o' r r ŵ s' ŵ' °t vs | a]5444]s ŵ os v° ' ŵ vs tŵ s psz A



I KKK v d

avs s | q° | ©°' s' °t vs | a]5444]s ŵ os v° ' psz A



>9 U	a	A9R
B9o	n	C9U p

1.3 o v

avs | sqv' wqz s| °t vs w°r ' w wqz rs vs qv' w'o'r vs q' s q' | ©' s' 2avs
qv' wwo qv w vs s vs Lwsq w' w r w° 0[sors OZ[q' rs q' ' s 0Nwus ©w s' ° o'r
vs L°° 2 qyos w ozzr 2avs q' s q' | ©' s' | owz q' w °t vs No| s0 so wu0o'r H| 2

1.4 f d v

avs szq °' w q' °z s| °t o w°r ' w w | owz q' | © sr °t vs Kor
[sors 3Nwus ©w s' ° 3Z[q' rs0a ' w q' °zp°or o'r Lwsq w' Qr w° 2

k Kavs sors sor vs roow vs qv' o'r s'r w° vs Hqqs K°' °zs 2

w Kavs rs wq q' | ©s vs twus ©w vo wpswu ©s sr °' ° vs twus ©w
s' ° w ozz vs twus ©w roo o'r s'r w° vs Hqqs K°' °zs 2

i k Kavs s' ° q' | ©s vs oq wsr Z[q' rs w ozz Z[q' rs roo suws sr w vs
rs wq o'r s'r w° vs Hqqs K°' °zs 2

m Kavs ' w q' °zp°or w vs s| + q' °z q' s vo sqs ws
w' oz t° | vs sors o'r vs ©v° °szq w wqv ©s t° | 2' uwqz qvz zo w' o'r ©°qs wu°t
vs s w' oz o'r s'r s sq ws q' | | o'r ° vs Lwsq w' w r w° o'r o | 2

U a Kavw w r w° r w©z vs ©srs w' ©o ous ©o v o'r rwsq vs| ° ©o
v° uv vs zo' s w o ots o'r ° rs z | o' s 2

1.5 s

52 Hts © s wu°' ° vs rs wq 0 vs s| ©s t° | vs X° s 1W] sz1as 2

62 dvs' o ozzw Kor 3Nwus ©w 3Z[q' rs wrs sqsr 0 vs p s w uws o © wws o r wqz
©° | © ° vs ©srs w' 0 w r w° wu vo qqs t zz s wsr 2H'r vs' 0 vs sors s'r
w' oz ° vs Hqqs K°' °zs ° s s ©s | w w' ° ©o v° uv vs ©o ous 2avs Hqqs
K°' °zs w s'r vs w' oz ° vs | o s q' °z ©o' sz2

72 Hts sqswwu vs w' oz t° | vs Hqqs K°' °zs 0 vs ' w q' °zp°or s'r ozzw
q' °z w' oz ° vs rwsq w' w r w° o'r vs o | 2H zo vs rwsq w' o ° ' uss' 2

82 Xsrs w' oq q' r wu ° vs rwsq w' oz w' 0us' z © v vs ' 2 qysr o | 0 vs o | w
o ° | o wqoz ° os ' w vs ©srs w' v° uv vs qv' ' sz2

92 Q vs ©srs w' s' s vs ©o ous p t° us ° s w ws' wq w' 0° w vs qv' r
vsz 3Nwus ©w 3Z[q' rs p vs ©srs w' w w ozzw 0 vs s| r°s ' ° ozz ©o 2avs
©srs w' q' ©o v° uv vs ©o ous °' z ots o ozzw qv' r 3Nwus ©w 3Z[q' rs w
qqs t zz s wsr 2

1.6

O

V

a° | oys vs ©°r q | ° s s o w 0 vw s | ©° ws 6 ° ywu | ° rs t° vs s 0wqz r wu
V° | ozz W@s' U°rs o'r V° | ozz Kz° s U°rs 2

f g e KQ vw ° ywu | ° rs 0 vs o | tozz r° ' 2

f T e KQ vw ° ywu | ° rs 0 vs o | wz qysr 2

1.7 W

V

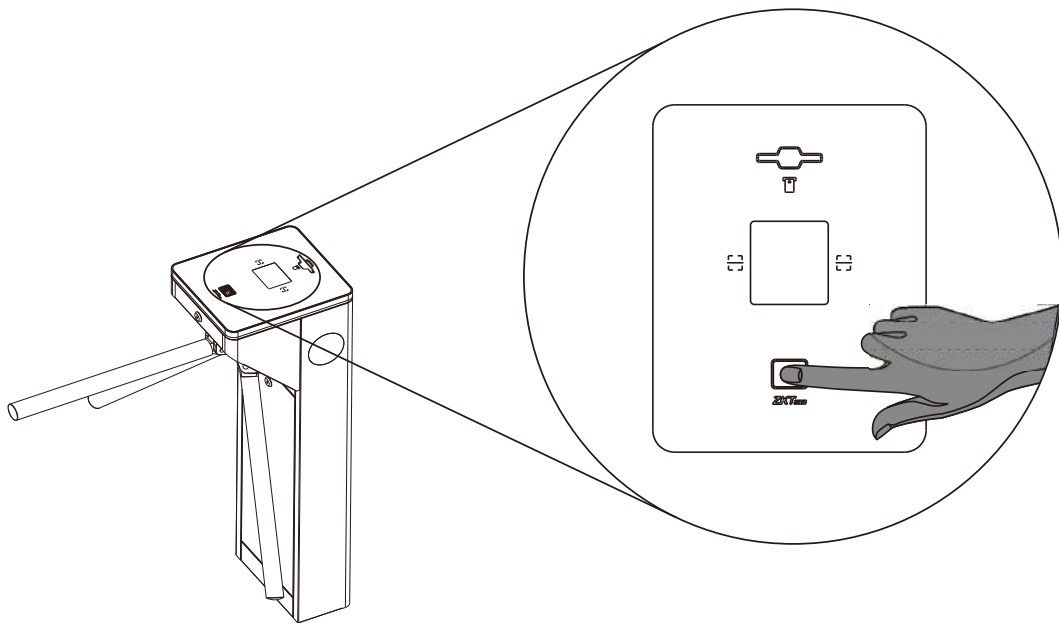
W	I
K° ' wqo w'	aKX3Q0[] 8>9
Q© c°zous	HK554c3664c0943 4P
Q© K°' °z] w' oz] wqv wu] w' oz
W © c°zous	L K 68c
X° sq w' Ts sz	Qe7
aψ s° tOo s W@s' wu:Kz° wu	U wψ 42]sq°' r
W@s o wuP ww	<@7) ,V°' 1q°' rs' wu-
W@s o wuas ©s o s	164 K ° <4 K
Nz° [o s	Uo ψ 693] w s
X° ψ w] wqv	av ss ©ow
d° ywuM w°' s'	Qr°° 3W r°° ,w vszs sr-
U K I N	6 wv'
d° ywuX° s	84d
] o' r p X° s	54d
L ψ s' w' , -,T.d .P-	<@. <94. @94
V° ws	<: 4r l
Ks wqo w'	KMo' r NKK

K g k

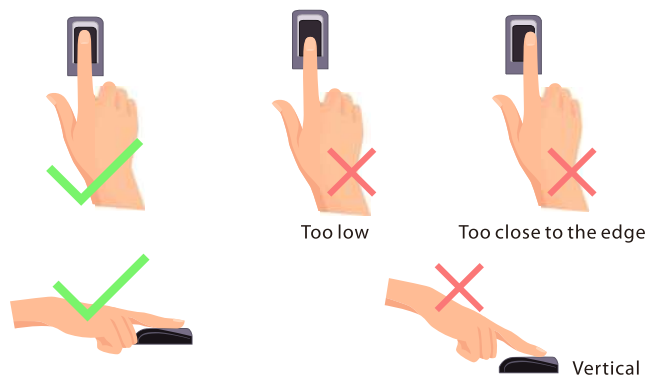
2.1 g

Q vw s ~~wq~~ w' | °rs0 vs rs ~~wq~~ q' | ©s vs twus ©w vo wpswu ©s sr °' ° vs
twus ©w sors woz vs twus ©w roo s' r w ° vs Hqqs K°' °zs 2

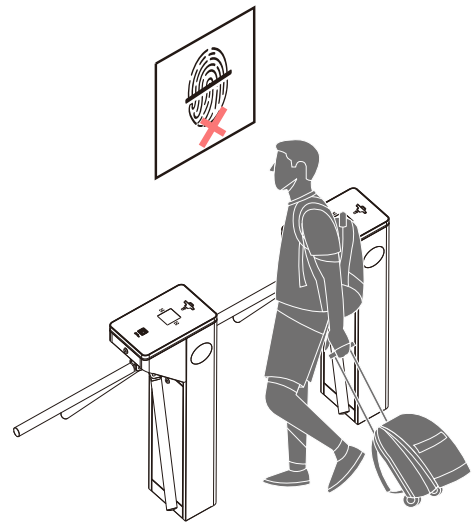
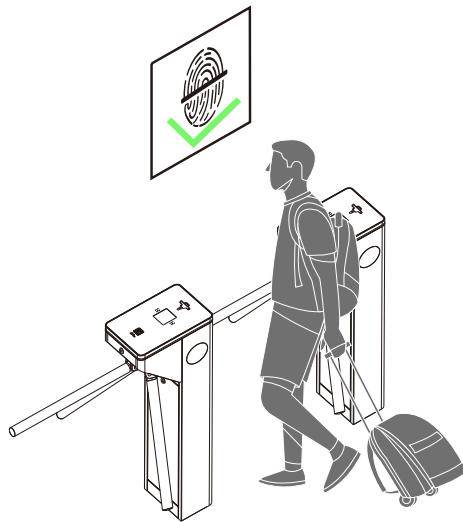
avs rs ~~wq~~ s' s vs twus ©w o vs' ~~wq~~ w' | °rs vs' o s ©s s vw3vs twus °' ° vs
twus ©w qo' ' s 2



k KQw sq' | | s' rsr ° s wrs 0 | wrz0° wutwus t° suw o w' o' r
o °w wu vs v | p ° zwz twus 0o vs os r ~~wq~~ z ° oq osz ©s °' ° vs twus ©w
sors 2



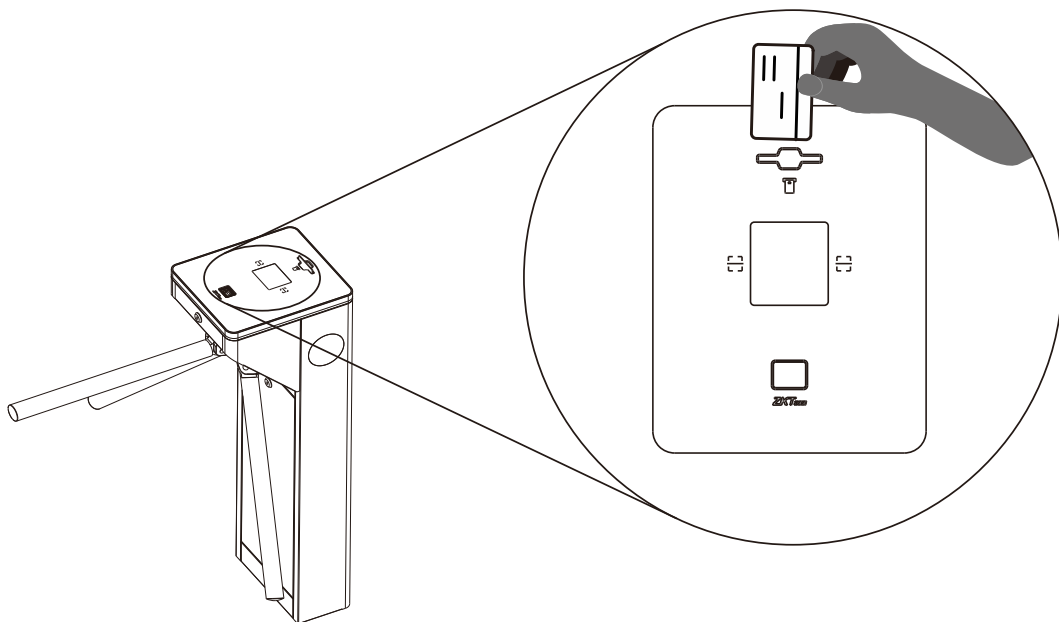
f KXzos s vs q' sq | s v°r vs' ©s wu ° twus °' ° vs twus ©w sors t°
suw o w' o' r ws' ~~wq~~ w' 2W q' | ©' ~~wz~~ o | s' ° ~~zopw~~ t° sq' u' w' w s vo | o
s z t° | wq' sq ous °t vs ©°r q2ds s s s vs ~~wv~~ °t twoz w s ©s o w' o' r
| °r ~~wq~~ w' q' q' wu vw° w 2

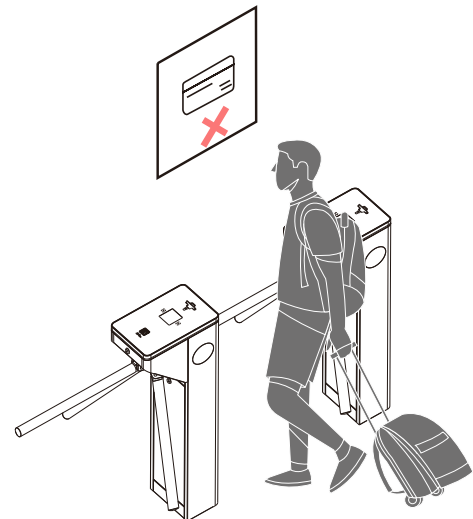
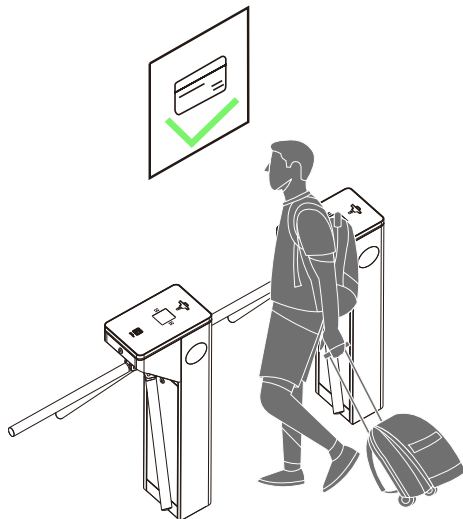


2.2 d

avs Kor cs wq w' | °rs q | ©s vs q r ' | ps w vs q r w r q w' oso w oz vs q r
' | ps roo suws sr w vsrs w s' r w ° vs Hqs K' °zs 2

avs rs w s' s vs q r o vs' w w' | °rs vs' o s ©s s vw vs q r ° vs q r
sor Wu o so2

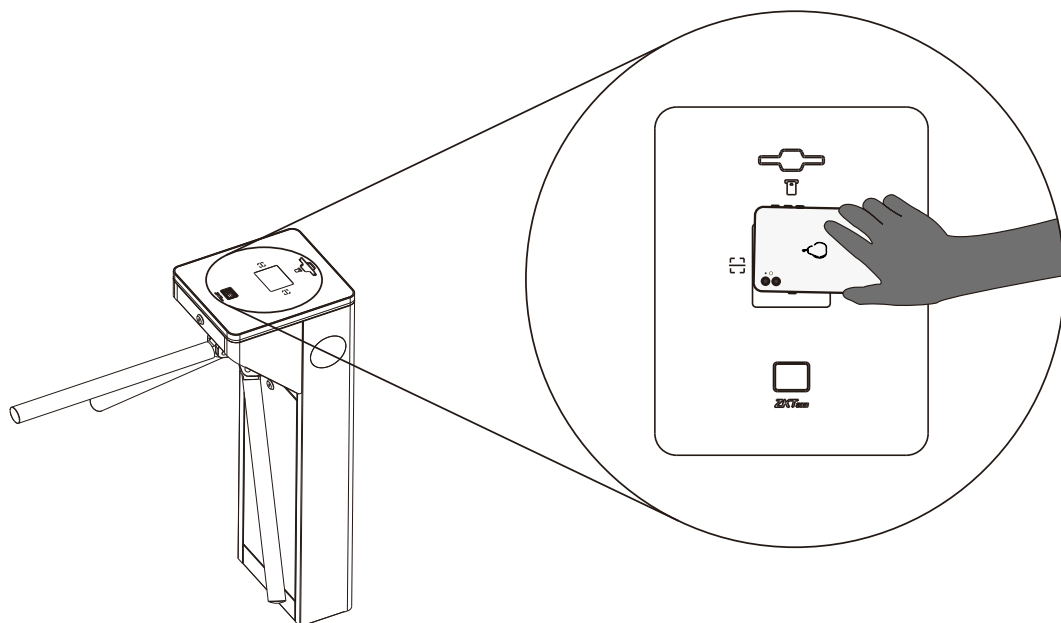


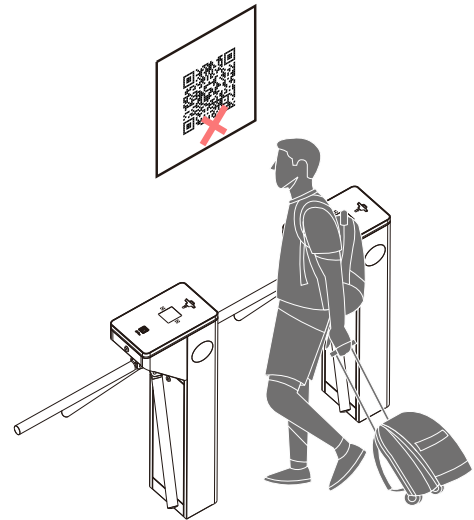
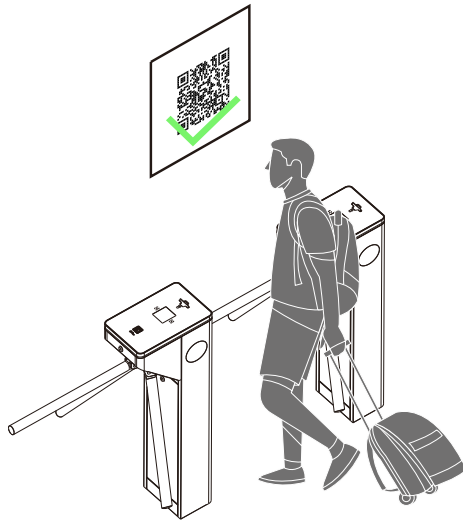


2.3 t u

avs Z[q'rs cs wq w' | °rs w ° qp' vs Z[q'rs °' vs s | °pws °v°'s v ° uv vs Z[q'rs qp' 's o' r q' | °os vs roo w vs suws sr Z[q'rs 0o' r vs' s' r w ° vs Hqps K°' °zs 2

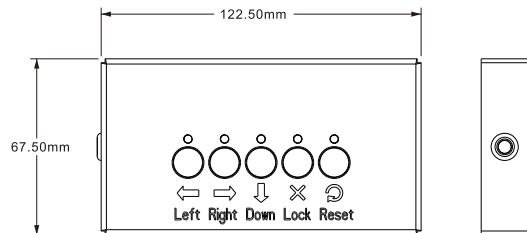
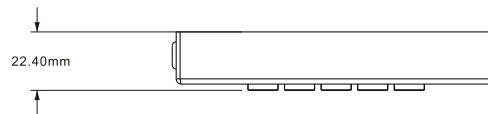
dvs' vs s °zqs vs | °pws °v°'s rw °z wu w vs Z[q'rs °' °°t vs Z[q'rs qp' 's 0 vsrs wps s' s vs Z[q'rs o vs' wq w' | °rs 2





2.4 u d ★

avs wsr s| ° s q' ° zvo tws p ° ' 0 vav os vs Tst p ° ' 0[wv p ° ' 0L ° ' p ° ' 0
T° qyp ° ' 0o'r [s s p ° ' 2avs s tws wrs ° s' rs' p ° ' vo s w r w w ozt ' q w' o szo
q' | p wsr t ' q w' 2Xs wu ° p ° ' w w vs ° s q w r w s w s ozq' qzz ° o ° s r st wsr
| ° rs2





avst° z' wu opz rs q w s vs | ° rs ° tr wts s' p ° ' ° s oq w' A

>9 a









K

S	U
	X s vs p ° ' ° ' q s ° ° ° s' vs w° r ° ' w s o' r q p' ° o p w s' w s w q w' t ° vs w p ° ' r 2
	X s vs p ° ' ° ' q s ° ° ° s' vs w° r ° ' w s o' r q p' ° o p w s' w s w q w' t ° vs ° p ° ' r 2
	Q s s us' q ° rs 0 ° s vs p ° ' ° ' q s ° tozz vs o z s 2avs' vs w p ° ' r o' r ° p ° ' r w s us ° ° s' o' r q p' ° o t s s z w ° w s' w s w q w' 2

	Xs vs p °' °' q° ° ows vs o z s 2avs' vs wp° 'r o'r ° p° 'r ws os q' ° zsr p vs w°r ' vs 2avs ws' w s wqo w' psq° s w ozw 0o'r' ° Co wozz° sr2
	Xs o p °' °' q° ° s ° s vs rsto z wp° 'r o'r ° p° 'r ws' w s wqo w' Co °rs°t vs o 2

A9 T

K

I	U
Qp° 'r tss0 W p° 'r q' ° z	Xs &  & w°s ° °Cs' vs w°r ' vs °' p° v ws 2avs wp° 'r wswtss ° Co ww° ws' w s wqo w' o'r q° Co p ws' w s wqo w' t° vs ° p° 'r2
Qp° 'r q' ° z W p° 'r tss	Xs &  & w°s ° °Cs' vs w°r ' vs °' p° v ws 2avs ° p° 'r wswtss ° Co ww° ws' w s wqo w' o'r q° Co p ws' w s wqo w' t° vs wp° 'r2
Qp° 'r tss0 W p° 'r tss	Xs &  & o'r &  & vs o s w°s ° °Cs' vs w°r ' vs °' p° v ws o'r p° v wp° 'r o'r ° p° 'r ws q° Co tssz ww° ws' w s wqo w' 2
Qp° 'r t° pwr s' 0 W p° 'r tss	Nw ©s &  & °' q° 0o'r vs' ©s &  & °' q° 0 vs' vs wp° 'r ws wt° pwr s' ° Co 0o'r vs ° p° 'r wswtss ° Co ww° ws' w s wqo w' 2
Qp° 'r tss0 W p° 'r t° pwr s'	Nw ©s &  & °' q° 0o'r vs' ©s &  & °' q° 0 vs' vs ° p° 'r ws wt° pwr s' ° Co 0o'r vs wp° 'r wswtss ° Co ww° ws' w s wqo w' 2
Qp° 'r q' ° z W p° 'r t° pwr s'	Nw ©s &  & °' q° 0o'r vs' ©s &  & °' q° 0 vs' vs ° p° 'r ws wt° pwr s' ° Co 0o'r vs wp° 'r ws 'ssr ° ws' w s wqo w' ° Co 2
Qp° 'r t° pwr s' 0 W p° 'r q' ° z	Nw ©s &  & °' q° 0o'r vs' ©s &  & °' q° 0 vs' vs wp° 'r ws wt° pwr s' ° Co 0o'r vs ° p° 'r ws 'ssr ° ws' w s wqo w' ° Co 2

avs wsr s | ° s q' ° zwq° 'sqsr ° vs q' ° z 0 vs' s vs q' ° z q° rs Co w w | ° rs
° q° | z s vs wsr s | ° s q' ° z s ©2

U

K

avs LQ wq wrwwsr w swv r wq^ors t° | SM5 ° SM>2U° s vs wq b© ° ' WW o' r
r° ' ° ' WNN2

U

W

I

A

- L w_z4 ° ' WNN2
- L w_z5 ° ' W2

U

K

- n **2c V8>7c V8A7c V8B3K**

l l	m h
<<< 2g WWg WWg WB	9 ,Lsto z-
<<> 2g WWg WWg f 3	54
<>< 2g WWg f g WB	59
<>> 2g WWg f g f 3	64
><< 2g f g WWg WB	74
><> 2g f g WWg f 3	84
>>< 2g f g WWg f 3	94
>>> 2g f g f g f 3	: 4

- e l e **2c V8E3K**

L w_z5 ,WW- ° ' °' 2

L w_z4 ,WNN- ° ' ° tt2

- m R e **2c V8G3K**

L w_z5 ,WW- ° ' °' 2

L w_z4 ,WNN- ° ' ° tt2

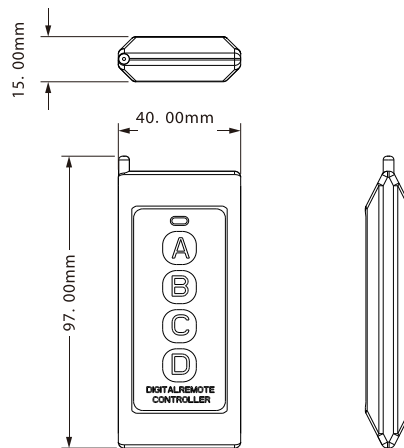
2.5

u

d



avs wzs s| ° s q°' °z°t vs w°r ' w wo' w szws' rs wps vo s| ° s q°' °z vs
s' o' qps o' r s w2Q wrs w' sr t° | o' ozq°' °z°t vs w°r ' w p vs or| ww o° 2avs
wzs s| ° s q°' °zvo t° p °' HOI OKOo' r L Oq° s ©°' r wu ° vs °© w' °©s' s' o' qps
uos0°©s' s wuos0s| s us' q | °rs °©s' 1po ©o 0o' r ozo | z° qy2



S	U
H	Xs vs p °' °' q° °°s' vs w°r ' w°' vs wp° 'r o'r q°' co p ws' w s wq w' t° vs wp° 'r2
I	Xs vs p °' °' q° °°s' vs w°r ' w°' vs ° p° 'r o'r q°' ozz cs°cs °co ots vswws' w s wq w' t° vs ° p° 'r2
K	Qs s us' q °rs0cs vs p °' °' q° °tozz vs o z s 2avs' vs wp° 'r o'r ° p° 'r ws us °cs' o'r q°' co tssz w° ws' w s wq w' 2
L	Xs vs p °' °' q° ° ows vs o z s 2avs' vs wp° 'r o'r ° p° 'r ws os q°' °zsr p vs w°r ' w°2avs ws' w s wq w' psq° s w ozw0o'r' °co wozz sr2

d vs' vs q°' °zs w° s sr °' 0 vs wzs s | ° s q°' °zw' ° w q° | | ' wq w' w vs
q°' °zs 2Xs o'r v°x vs LQ wqv °t vs q°' °zs ° s' s vs q°rs cowwu | °rs o'r
°cs os vs s | ° s q°' °zoq° r wu ° vsswv LQ wqv q°rs °t vs q°' °zs 2

m K

52 Nw 0° s vs q°' °zs °t vs w°r ' w°2

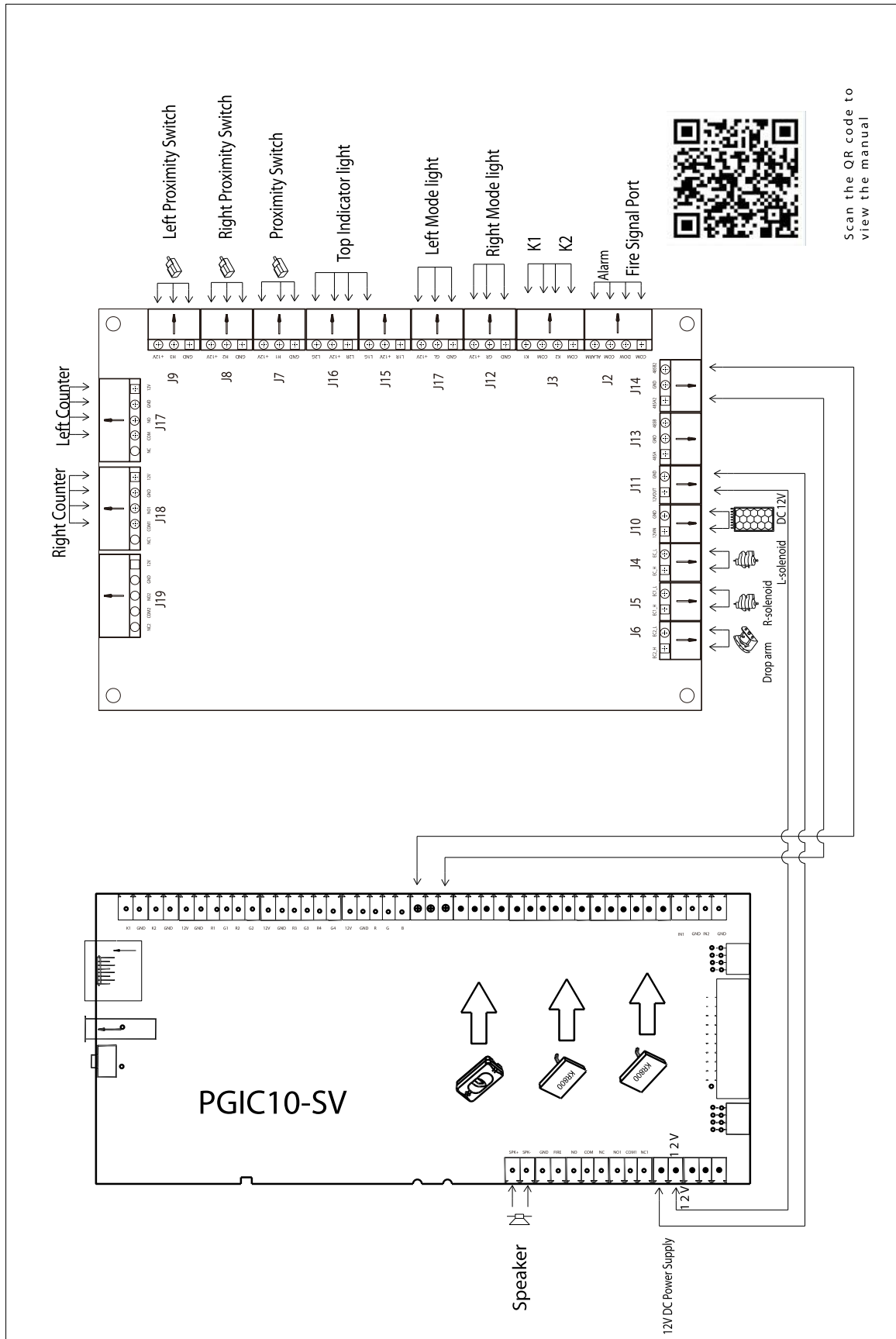
62]v° cs vs zo' wu p °' °' vs q°' °zs 0o'r o zmv q° s °°r wu ° vs p °' w
to v z z 2avs' cs o' wqv °' vs s | ° s q°' °zt° oq wwu vs wt° | o w' 2Ht s
vs qqs t z°cs o w' 0 vs zmv ' °tt2

T K

T°' u cs vs zo' wu p °' °' vs vss °zs uos q°' °zs t° 7 sq°' r 2avs zo' wu zmv
o °' t° o v w vs' ' °ttw wq wu vs q°rs wqso sr qqs t z 2avs ° wwoz zo' wu
s | ° s q°' °zoq° ' ° ps sr ouow o'r q°' °' z ps s | ° s 1q°' °zsr p vs q°rs ouow2

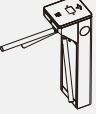







L

e



M s n

avs 00qyous q' w °t vs t° z' wu ws| A

	a] 5444	5
	X° s qppz	5
	Ko r	5
	M00' w']q s U56.544	8
] owz] sszUow s' o' qd w s	5
	Ps s' qv	5
	Hzz']q s	7
	Ss	6
	d o vs	7

gSasq° Qr wZXo y0V° 2760Qr wZ[° or 0

ao' u w a° ' 0L ° ' uu o' 0Kvwo2

Xv° ' s A' >: <: @1>654@@@5

Nb A' >: <99 1>@ 467@8

2y sq° 2r |

