



# EQUIPMENT MANUAL

6(&7.21 , 3523(57< 0\$1\$\*(0(17  
\$1' \$&&2817\$%,/,7<

\$ 6XEMHFW \_\_\_\_\_

% 3XUSRVH \_\_\_\_\_

& (TXLSPHQW 'HILQLWLRQV \_\_\_\_\_  
\*HQHUDO (TXLSPHQW 'HILQLWLRQ \_\_\_\_\_

7DJ 1XPEHU  
'HVFULSWLRQ  
0DQXIDFWXUHU  
0RGHO 1XPEHU  
6HULDO 1XPEHU  
(TXLSPHQW /RFDWLRQ  
&RVW  
6SHHGWSH

\$VVHW 0DQDJHPPHQW

' 5HVSQVLELOLWLHV \_\_\_\_\_  
(TXLSPHQW \$FFRXQWLQJ  
0DQDJHPPHQW &HQWHUV  
'HSDUWPHQW RI (QYLURQPHQWDO +HDOWK DQG  
6DIHW\  
\$QQXDO 5HSRUWLQJ WR '2' DQG 1\$6\$  
&DSLWDO (TXLSPHQW 3XUFKDVH \$SSURYDO  
\$FTXLVLWLRQ RI \*RYHUQPHQW 3URSHU\  
(TXLSPHQW 6FUHHQLQJ & 2WKHU (TXLSPHQW 8SGDWH 3URFH  
6SRQVRUHG 3URMHFW \$FFRXQWLQJ 'RFXPHQWDWLRQ RI 5HWLUHG (T

( 5HWLUHPPHQW RI ,!TM` #3U9€<% ,QIRUPDWLRQ (QWHUHG DQG 6WRUHG EQSW  
\$VVHW 0DQDJHPPHQW

6(&7.21 ... + \$33(1', &(6

6(&7.21 ,, '\$7\$ &2//(&7,21 \$1' \$ (TXLSPHQW &KDQJH RI 6WDWXV IRU  
6<67(0 83'\$7( % 3K\VLFDQ ,QYHQWRU\ 6FKHG XOH

\$ 'DWD &ROOHFWLRQ \_\_\_\_\_  
\$VVHW 0DQDJHPPHQW

& (TXLSPHQW %XLOGLQJb"LS •i'2ooRE



&DSLWDO (TXLSPHQW 6WDQGDUG 3URFHGXUH

% 3XUSR VH

7R RXWOLQH WKH SIBQ UFLMHFRDYHG LSURVLSVLSURQ DWH FRFOTXLOLDWLRQ DQG  
WUDQVDFWLRQV IRU WDSLQ RRG HJT XLSPHQW WIKWKHJTGWH DO 5HJXODV  
DJHQFLHV RWKHU VSRQVRUH G JXLGHOLQHJW WLRQXUDQFH DQG DQG

& (TXLSPHQW 'HILQLWLRQV

\*HQHUDO (TXLSPHQW 'HILQLWLRQ

1RQ H[SHQGDEOH WDJJLEOH SHUVRQDQD ISURVSHHW\ ZLQKODG LQFJT XLV  
RU PRUH SHU XQLW DQG D XVHDOU OLVIHF RQ WLGHDWHGJ FVSDQ DQ  
KHUHLQ DIWHU FDOOQG LVTXLSMHHQ WWRJ WKKHLSURFHGXWG 7KLV  
GHILQLWLRQ LV GHWDLOHG LQ WKHQOLYHUVLW\TV LQGLUHFV FRVW

6SHFLDO 3XUSR VH (TXLSPHQW

(TXLSPHQW XVHG RQPHILUF DQVNDUHQWHIFKGLRDUORDFKWHU LWLHV

\*HQHUDO 3XUSR VH (TXLSPHQW

(TXLSPHQW WKH XQRWRDZKILWIKGVRQGLWROUHWFLDQFKLIEFRU RWKHU  
DFWLYLWLHV ([DPSOHV RI JHQHUDO SXUTSRVSHHQWLSQSQWULQFVXXQF  
FRQGLWLRQLQJ HTXLSPHQW UHSURGXFWRUHQDQFGBULQWGDQXWTRLS  
SURFHVVQLQJ HTXLSPHQW

\*RYHUQPHQW ODWHULDO

3URSHUW\ ZKLFK PDHGHQRRUSDUVDFRPHVWRHHDQHQQGHLUHG XQGHU  
RU WKDW PD\ EH FSHUXRPHDQFWRHDFGRQWUDEFXW LW LQRW OLPLWHQ  
SURFHVVHG PDWHURQDQVWUWVFRSROW DQG VRSOPWRx... HPU



# EQUIPMENT MANUAL

D \*RYHUQPHQW )XUQLVKHG 3URSHUW\ \*)3

3URSHUW\ LQ WKH SDFVXHU V HGR GLR JH FRUQQ PEHQ WW KHQ GRYXEVHTXHQ  
GHOLYHUHG RDRGM KDYUZZLWOBQBHYMR UHW W WZ LWOKH WKH \*RYHUQPH

E &RQWUDFWRU \$FTXLUHG 3URSHUW\ &\$3

3URSHUW\ SURFXUHG R RUGRHCENUVKVFHEB SWU DFUWPDQ FRIURW D FRQ  
WLWOH WR ZKLFK LV YHVWHG LQ WKH \*RYHUQPHQW

F6XEFRQWUDEWUBSRTXIUW\ 6\$3

)RU WKH SXUSRVH RW WQXDRSISQPRBQWSUZKLFK LV SURFX  
RU RWKHUZZLVH SURYLGHG WR Wp 0

' 5HVSQRQVLELOLWLHV



# EQUIPMENT MANUAL

DQG SURYLGHGRDQXDO LGDWLRQ BIEQBQWDOHSXUSRMQW 120% &  
 \$WWDFKPHQW 1 IBUPVFWDEBVDXQV JRYHUHQPHQJWWKHSRSHUW\ 7L  
 3DUW IRUPHUO\ 20% &LWVDEOUVKHVP HQXGLVD QUTXLSRQHVELOLWL  
 IRU LPSOHPHQWLQJ DQG PRQLWRULQJVKHVIHGHUDO DXGLW UHTX

0DQDJHPHQW & HQWHUV

'HDQV 'HSDUWPHQW SOKDLQVH3WILQ BWHRUVDVBI,HUDQG\$IGHULQLVWUDW  
 UHVSQRVLEOH IRQ D\KVLWUQJQ(\$ LGRQWELQJ SKQGLFDO LQYHQWR  
 HTXLSPHQW UHSRUWLQJ DQDIFWLRSRQD BSRQVLDLQDQJ\ DQG DOO  
 HTXLSPHQW /LVWHGSEHORZHDXSWKH QWWVDVQVDFW IERQVHSRUWHG IR  
 )HGHUDO DQG QRQ IHGHUDO IXQGV

D )DEULFDWHG (TXLSPHQW

,W LV WKH UHVSQRVLEO LSGPRQ WWHUFDGRIBLFXQD QVRQWR ILOO RX  
 1RWLILFDWLRQ RI )DEULFDWHG (TXLSEHQWDMRUPQESURWHH FWW DUKW  
 FRPSOHWHG IRUP DVQGHQKHVSRSHFV ZLQJQKHPDHVWLJGHG, RU D  
 ZRUNLQJ RQ D\KSHWVORNDHFKLVPSXVVRVXVGHGKWDJVDXPEHU RQ DOO  
 UHTXLVLWLRQV SQRKEMM RSUBUG QGDPQDXDLRQXUDDO HQWU  
 ZHOO DV \$FFRXQWVW3DQVH VZKDVHQVLPDIWQWRV\$H XORMHFW  
 DQG WKH HTXLSPHQWLEH \$KW WQDVJ WPKHID \$ULLFDQWGLWHP JD  
 SHUWLQHGW LQIRERDWWLRQW KQGHQWKLUH SURMHFW ZLOO



# EQUIPMENT MANUAL

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# EQUIPMENT MANUAL

## \$FTXLVLWLRQ RI \*RYHUQPHQW 3URSHUW\

7KH 3, VKDOO EH UHODVLRQV LILHQFH QRU SRVSHUWLRIQQ RULFRQWURO LQ D  
ZLWK WKH WHUPV IRDQWKH7KRQWLQDFRQGLIHSURSHUW\VSXK FRQWUDFW  
PD\ EH LQ WKH SRVVHVVLRQ XEPRQW DURPRZK LFRQFHQWUSURSHUW\  
PD\ EH IXUQLVKHG RU DFTXLUHG DUH DV IROORZV

,)URP \$JHQFLHV RI ++6'2'(2'1\$6\$ RU 2WKHU &RQWUDFWRUV

\*RYHUQPHQW SURSHUW\ PD\ EH VKLSSHQJ WRWIKHVSODLODIDLWQVURUP  
\*RYHUQPHQW FRQWUDFWRUV 7KH 3, LXSURQVSRIOVLEOH RRUWKHFKUS  
FXVWRG\ RU FRQWURO 7KH VSRQVRWKVQDGHVIXDQVFRFRD BFOXYDWM  
UHIOHFW WKH WUDQVDFWLRQ

.,'LUHFW 3XUFKDVH E\ WKH &RQWUDFWRU

'LUHFW SXUFKDVHV E\ WKH 3, XVLQJ VSRQWR D HGRK HGRWKHDDVSR QVVR  
WKDW WKH LWHPVWKUH VSRQRVFRLEHGH SVPJURDQD QGDHFFH VVDU\ 2ZQU  
ULJKWV LQ VXFK SURSHUQHGV EDVXHEVSRUHG SHQWDBRSURYLVLRQV L  
SDVVDJH RI WLWOH

## (TXLSPHQW 6FUHHQLQJ

3UH DFTXLVLWLRQEHFRHQXLFQWZLQDP SXVI\ZOGNHWRULGXHQWDQWLDQ  
HTXLSPHQW IRU SXUFKDVHJH BWHU XVFRQWUDFWW DQSSRUWHG ZLW  
IXQGV ,I LW DSSHDSPHQSLHFHORNHOMLWLFELVDDQWKD DSSURSULDWH  
SHUVRQQHO ZLOOEHFRQVWQFHWHGHVDBDHDDELHOLWVIRUJMG XVH LV Q  
RU WKH VFUHHQLQJWRU BGHQWULH IDLDQV RUPVXQDVWHTXVSPHQW WKH S  
UHTXLVLWLRQ ZLOOHEBSSSRUSRYLHQV EKVXUWKXULVWVDRQ ZLOOEH SURF  
SXUFKDVH

(DFK PDQDJHPPHQW FHQWHU KDV HVWDEFOKLKMB \$GFSRQWEDOLLWHI  
VFUHHQLQJ VXFK SXUFKDVHV

## 6SRQVRUHG 3URMHEW \$FFRXQWLQJ 63\$

D \*UDQWV \$GPLQLVWUDWLRQ

63\$ VHWV XS QHZ JUDQWV ZLWKLQ WKH\$'8QLYHUVLVDOVIRV VWDQWV  
FRQWUDFW IRU WKH JUDQW DQG GHWHUPEHQZVHWHWU BZQK UWKH  
DJHQF\ RU LV WUDQVIHUHG WR WKHW8 QUYBWWVWH FRQVWQV LRRP  
63\$ XVHV D ILHOG FDOOHG <sup>3</sup>(TXLSPHQW TXLVSQHQWWR7KKIRZRZHQHU  
DUH

- ± 8QLYHUVLV\ RZQH
- ± 2ZQH E\ WKH 6SRQVRU
- ± 2ZQHUVKLS LV FRQGLWLRQDO VHH FRQWUDFW
- ± \*RYHUQPHQW RZQH

:KHQ ILQDO GLVSRVLWLRQ RI WKH JUBQW RBQXKWDQZQHIBVKHSDRE  
IURP JRYHUQPHQW RZVHGZQHQ63\$ULVRUHLGSRQVLEQH\$RIWKHIL  
GLVSRVLWLRQ RKBHUIBQWDRQVWKHWHKXWSPHQW IURP



# EQUIPMENT MANUAL

E 6XEFRQWUDFWRU &RQWURO

7KH 6SRQVRUHG 3URQUDBY\$\$FLRQW\$RQWLEWHQJRDQGJHFXWLQJ  
VXEFRQWUDFW DJUHHPHQWV 63\$ HQV

( 5HWLUHPHQW RI (TXLSPHQW



# EQUIPMENT MANUAL

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5HWLUHPHQW

8VH WKLV FDWHJRU\ IRU WKH IROOR



# EQUIPMENT MANUAL

## \$ 'DWD & ROOHFWLRQ

### \$VVHW 0DQDJHPHQW

'DWD WR EH LQWHUFRQYHGHG W R \$ 0 \$LYFRX QXVF KDVE QHGHUV DQG LQY  
 EDFN XS GRERQH QWDMYLZKHGKEZL(\$O P QNHV D Q UFKDOHWLRQV DV QHFH  
 2FFDVLRQDOO\ WKHI HDV QHZE DLWKFWHQ Q \$R VZLLOED Q RYDE QWK M 3D\DEOH  
 LQWHJUDWLRQ , Q QRLUPDHO FEDVFN X \$ IGR EXP ER WDWLRQHG E\

% , QIRUPDWLRQ (QWHUHG DQG 6WRUHG LQ \$VVHW 0DQDJHPHQW



# EQUIPMENT MANUAL

## 0DQXIDEWXUHU

\$ WKLWU\ FKDU DFWKHU RDQGDW\XW HQRJUZ RBGSU RCKXIFHTGLSPHQW RI WK 7KH YHQGRU ZKR VRWGWKRW KHT XQS FHCQWHLW\ DZ WOKH EFD QXIDFWXUHU RQ WKH VDPH

## 0RGHO 1XPEHU

\$ WKLWU\ FKDU DFWKHU RDQGDW\XW HQRJVRBRWIKIO HTXPLES PHQW 0RGHO QX DSSHU RQ WKH LQVRLRHWG IRWVSYBQW\ WGFQ RWK DSSHU WKHUH WKH\ REWDLQH ZKHQ WKH BTKU SPXILQV J W RFDQSLRFFWHLQJ RWKH 3K\VLFDQ ,QY 3OHVH QRWH W KDEVD HV RIR GPHQ V XUFEOHLS KVV WFKDORQ HD SSKDW V RQ WKH H DQG LV LGHQWLIH LHGY BQ WIRQJ SURFHVV

## 6HUIDO 1XPEHU

\$ WZHQW\ FKDU DFWKHU ILDHOG DFLW XLIQU VRVHW KBIOS QXPE RI HTXLSPHQW QXPEHUV VRPHWLPVLE BSS HEDUW RQK HQ DQ H GX ZKBQOW RHE WDXLSPHQW LV WKHQ HQWHUHG LQWR \$0

## (TXLSPHQW /RFDWLRQ

\$ XQLTXH WHQ FKDU DFWKHU VHQV WKKWKFRPELQDWRQ RILJLW DQG UR QXPEHUV )RU H[DPSOH LI DQ HTXLSPHQW WRIRPH ZDR IOWKWHGL D FHEGLF 5HVHDFK %XLOGLQJ WKH (TXLSPHQWZRF&WLRQ ZRKBGHDSSPHUDVDI DVVLJQHGE\ WKH 8\$GPHQLVWVUSRFXLQGQVWF RGHVQVELQFOXGHG LQ VSSHQGL &

## &RVW

\$ ILHOG LQGLFDW6QJXWKHGRVVRUQWLS SHLQWH RKHDFWXDO DPRXQW SFRVW UHFRUGHG 7KH XHDKRQDHEW XVHUSPHQRVQDWHG HTXLSPHQW WKH 8QLYHUVLW\ VQHLQVH GRWM LKDWBSHGGERXGSMHSH 6SHHGWS XVHG WR SXUFKDVH DQ LWHP WKH WRXVGD EFR VV VRD LQCHG TEXLWPHQWJLW RI FRVW IRU DOHQWZVURQLVQ LQJY XQGPHUWKH RDRHMDPSOHV RI FRVW



# EQUIPMENT MANUAL

## 6SHHGW\SH

\$ QLQH FKDUDFWHU ILHOG WKDW SRSXODWHVRSURHQVSRFLPRHGI&KHDQGW  
)RU H[DPSON WKH 3HRWH&WDVSDQW PDXXGRIBDVGFDQDQ SRSXODWHG E  
6SHHGW\SH YDOXH WKDW LV HQWHUHG

## \$FTXLVLWLRQ 3ODFHPHQW 'DWH

7KXVH WZR ILHOG GDWBUMKDWVW WKHLWRIRVZDYLS&DFHG ZIQHQ GHSUHFLD

## 3XUFKDVH 2UGHU 1XPEHU

\$ WHQ FKDUDFWHUW&XUHF&OVHLYWG&U W&K&EHRUI IRTXDSSHQW 7KLV LQIRUP  
RQO\ EH DYDLODEOH LI WKH LWHP ZDW BQD&EGM RV \$U FEXJKDW RH \$LQF&R&Q  
SURFHVV \$OO HTXLSPHQW LWHPV PDQX&X&Q&F&K&D&G&B&H&G&V&R&U \$Q X&P&E&H&Q&R&V&L&V  
LQIRUPDWLRQ LV DYDLODEOH RXWVLGH RI \$0

## 'HSDUWPHQW

\$ VL[ GLJLW QXPEHU WKDW LQGLFDWHUW&K&G&W&K&R&R&G&B&D&U&P&D&Q&W&P&H&Q&W  
UHVSRQVLEOH IRU WKHLH&G&L&S&P&D&Q&W&K&L&V&G&M&D&O&Y&H&G&W&K&R&P WKH 6SHHGW\  
WKH HTXLSPHQW SXWFKD&U&D&F&K&H&U&L&G&Q&D&Q&D&H&V&P&M&Q&R&R&Q&R&H&U&O&R&F&D&W&L&F  
FKDUDFWHUW&L&G&H&Q&X&L&F&W&L&R&S&D&R&M&W&K&V&R&X&J&K&L&O&D&W&W&D&U&H&D&V&V&L&J&Q&H&G&E\&W&K&H  
PDQDJHPHQW F&H&Q&W&H&U&W&W&K&R&G&D&S&D&W&Q&H&D&W&H&G&S&Q&R&W&K&H&&R&Q&W&U&R&O&O&H&U&T  
VFKRROV DUH GHILQHG E\ WKH IROORZLQJ ILUVW QXPEHU

- ± \$UWV 6FLHQFHV
- ± 8QLYHUVLW\ \*HQHUDO
- ± (QJLQHHULQJ
- ± 06\$66
- ± /DZ 6FKRRO
- ± 6FKRRO RI 0HGLFLQH
- ± :HDWKHUKHDG 6FKRRO RI %XVLQHVV
- ± 'HQWLWU\
- ± 1XUVLQJ

## 6SRQVRU 1DPH

\$ ILHOG LQGLFDWLV&K&H&W&K&H&Q&D&P&M&S&R&Q&W&R&R&U&Z&K&L&F&K&S&U&T&R&M&S&P&W&Q&W&LV&FK&D&U&J&H  
VSRQVRUH&G&SUR&J&U&H&S&V&H&W&H&Q&W&H&L&W&H&O&M&K&H&R&S&R&X&P&E&H&U&L&Q&WKH&3&H&R&S&O&H&6&R&I&W  
PRGXOH )RU Q&R&H&G&V&S&R&Q&V&R&P&V&R&W&H&O&D&R&S&R&I&G&G&M&R&D&W&Q&W&G&H&S&D&U&W&P&H&Q&W&Q&D&P  
QDPH RI WKH HQGRZPHQW 6S&U&H&Q&V&R&S&I&V&NRU&LV&N&H&S&W&E&O&D&Q

## \$ZDUG 1XPEHU

\$ ILHOG WKDW LQGLFDWHV WKH QXPEHU BU&W&K&H&D&R&D&U&D&G&/S&R&Q&H&E&F&W&D&W&R  
ZKLFK HTXLSPHQW LV FK&D&U&J&H&G&H&S&W&H&U&Q&25&H&V&H&U&D&H&E&O&D&Q&N&ILHOG&DUH&O  
YDOXHV WKDW DUH XVHG IRU HTXLSPHQW&X&Q&V&K&D&V&H&G&Z&L&W&K&8&Q&L&Y&H&U&V&L

## 3. 1DPH

\$ ILHOG LQGLFDWLV&K&H&W&K&H&Q&D&P&M&S&R&Q&W&R&R&U&Z&K&L&F&K&S&U&T&R&M&S&P&W&Q&W&LV&FK&D&U&J&H

## (TXLSPHQW &XVWRGLDQ

\$ ILHOG LQGLFDWLV&K&H&W&K&H&Q&D&P&M&S&R&Q&W&R&R&U&Z&K&L&F&K&S&U&T&R&M&S&P&W&Q&W&LV&FK&D&U&J&H  
RI&W&H&Q&X&V&H&G&D&W&R&H&G&R&Q&B&V&H&FR&Q&W&D&F&W&I&R&E&H&W&K&G&H&H&V&T&W&K&S&P&H&Q&W&X&E&W&H&R&V&D&/&D&E  
RU )DFLOLWLHV 0DQDJHU



# EQUIPMENT MANUAL

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& 2WKHU (TXLSPHQW 8SGDWH 3URFHGXUHV



# EQUIPMENT MANUAL

F (TXLSPHQW LV RQQW WHI R X Q W D Q G A L K O / F D Q W D F S V Z W K H 3, RU \$ G  
 D Q G K D Y H W K H P I L Q G W K H H T X L S P H Q W Q H T G X W S P W Q W Z L O O H L W  
 U R R P R Z Q H U V K L S O L I V W W K H G U H Q L \$ O D R Q U R V I C H R L F D E W W F D Q R S U Z L O O P D  
 D S S U R S U L D W H F K D Q J H V L Q \$ 0

G (TXLSPHQW LV RQQW WHI R X Q W D E X Q W K W U B V R R I U S G P I X Q D E O H W R  
 H T X L S P H Q W , Q W K L S G P D Q H V W W K D W B R U Q L I O H D H R I Q D X E O W D R X U F H V  
 W R O R F D W H W K H H T W L S D E Q R W D E Q H I R O X Q G L D Q H R X W K H Q Z I L X L S P H  
 & K D Q J H R I 6 W D W X V I R U P L Q R U G H U W R K D Y H W K H H T X L S P H Q W

3URFHGXUH 5HYLVLRQV

\$Q\ FKDQJHV WR WKH G6XUDHQRSDUHG BIU FD & RQRUURGD GH WKH

\$SSURYDO

7KLV 6WDQGDUQ & KRIFHHXUDSSURYHG

2Q ILOH LQ WKH &RQWUROOHU V 2IILFH  
 6LJQDWXUH DQG 7LWOH

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'DWH





# EQUIPMENT MANUAL

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# EQUIPMENT MANUAL

\$33529\$/6

1DPH

6LJQDWXUH

'HSDUWPHQW \$GPLQLVWUDWRU

6LJQDWXUH )LHOG

'HSDUWPHQW &KDLU

6LJQDWXUH )LHOG

'HDQ V 2IILFH 'HVLJQHH

6LJQDWXUH )LHOG

(QYLURQPHQWDO +HDOWK 6DIHW\

6LJQDWXUH )LHOG

2IILFH RI 5HVHDUFK \$GPLQLVWUDWLRQ

6LJQDWXUH )LHOG

1RW QHHGHG IRU 6HFWLRQ '

2QO\ QHHGHG IRU 6HFWLRQ \$ ZKHQ DSSOLFDEOH

7KLV VHFWLRQ ~~WHQG EH~~ FRPLSSOPHQW \$FFRXQWLQJ

3OHDVH H PDLO FRPSOHWHG IRUP WR



# EQUIPMENT MANUAL

\$SSHQGL[ % ± 3K\VLFD O ,QYHQWRU\ 6FKH

&DVH :HVWHUQ 5HVHUYH 8QLYHUVLW\	
&RQWUROOHU V 2IILFH	
3K\VLFD O ,QYHQWRU\ 6FKHG XOH	
	\$V IR
<H DU 2GG \H DU V	<H DU (YHQ <H DU V

-DQXDU\ 3DWKRO ã0 pp0KGB#HC... ~D...d†>ñ1F1 — F>ñF1 — F 1F1 4 q4~c k•S@— lcaF,| q4g AF,| q4



# EQUIPMENT MANUAL

\$SSHQGL[ & ± %XLOGGLQJ &RGH 5HIHUhQFH  
&RPPRQO\ 8VHGLWQL%XLLOGGLQJ &RGH  
6RUWHG E\ %XLOGGLQJ 1RIPH

%XLQGLQPH

%QIG

%XLQGLQ



# EQUIPMENT MANUAL

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# EQUIPMENT MANUAL

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# EQUIPMENT MANUAL

&RPPRQO\ 8VHG %XLOGQLQJ &RGH  
 6RUWHG E\ %XLOGQLQJ &RGH  
 3DJH RI

%XLOGQLQJ 1DP%OGJ 'HQWDO 6FKRRO	& %XLOGQLQJ 1DP%OGJ *XHVW +RXVH	%XLOGQLQJ 1DP%OGJ &
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