SF20/C & LW20/C firmware revision history

Firmware version	Change log	Description	Hardware revision	Release date
4.4.3	Fixed: • Fixed incorrect distance values at update rates of 2500 and above	Bug Fix	19	30/05/2025
4.4.3	Changed: • Improved temperature compensation algorithms	Improvements	19.1 (Value in unit 191)	17/03/2025
4.4.1	Fixed: • I2C auto detect intermittent failure Changed: • Added state 3 to GPIO Mode to set ServoA pin output to 0V. • Added GPIO Mode 2 for control of ServoB pin. State 0 pin not initialised, State 1 Alarm A on pin, State 2 Alarm B on pin, State 3 output 0V on pin.	Bug Fix/features added	19	15/10/2024
4.3.1	Default LED state during production was found to be in "OFF" state.	Improvement/ features added	19	16/05/2023
4.3.0	• Limit of 16 bytes on the I2C communication packet length, this has been fixed to accommodate the full lengths required by some data outputs • LED state can be changed via the parameters tab in LightWare Studio. • #SU,1 and legacy Serial data output requested by sending "d" /"D" , the option to remove the space before the distance data.	Improvement/ features added	16, 18, 19	23/04/2023
4.2.0	• Improved stability at 2.5kHz and 5kHzSame firmware as 4.1.2, but for latest hardware revision	Improvement/ features added	18	15/10/2022
4.1.2	Improved stability at 2.5kHz and 5kHz	Improvement/ features added	16	01/10/2022
4.0.0	Brownout detection Higher update rates (up to 5 kHz)Added filters: (configurable) • Smoothing • Rolling average • Median I2C bus speed selection	Improvement/ features added	16	21/10/2021

2.3.0	LightWare Studio Compatibility Accuracy table for high calibrationunits Selection of GPIO on Servo wire(Servo, Alarm A, Alarm B) Fixed Alarm output for lost signals	Improvement/ features added	16	03/08/2020
2.0.10	Fixed rare occurrence of "data freeze"	Major	16	18/10/2019
2.0.6	Added customization code: LW20/C BMT1	Improvement/ features added	16	26/08/2019
2.0.5	Fixed: TDC timeout value causing spurious signals	Major	16	19/08/2019
2.0.4	Support for 12.8 MHz crystal	Improvement/ features added	16	15/08/2019
2.0.3	Added more customisation codes	Improvement/ features added	16	29/07/2019
2.0.1	Factory reset does not immediately save parameters	Minor	16	04/09/2019
2.0.0	Initial version for R16 hardware	Initial release	16	04/09/2019
1.9.3	Fixed: • Measurement rate could be incorrect at start-up	Minor	11, 12	04/09/2019
1.9.2	Changed: • Post amp control value to reduce cross talk	Minor	11, 12	21/09/2019
1.9.1	Added breakdown offset	Improvement/ features added	11, 12	29/07/2019
1.9.0	Added GPIO selection for Servo or Alarms	Improvement/ features added	12	18/07/2019
1.8.2	Added mode to output closestdistance found during a scan sweep	Improvement/ features added	11, 12	31/05/2019
1.8.1	Added mode to change lost signal from -1m to 230m	Improvement/ features added	11, 12	14/05/2019
1.8.0	Added camera shutter sync mode	Improvement/ features added	11, 12	29/04/2019

1.7.1	Added parameter to enable servo on start-up	Improvement/ features added	11, 12	15/04/2019
1.7.0	Added forced continuous output option	Improvement/ features added	11, 12	26/02/2019
1.6.4	Noise output now takes multiple shots into account	Minor	11, 12	23/01/2019
1.6.3	Servo output disabled when using Pixhawk compatibility mode	Improvement/ features added	11, 12	28/11/2018
1.6.2	Version bump was not correctly done for 1.6.1	Minor	11, 12	26/11/2018
1.6.1	Changed legacy distance output to use median filtered result	Improvement/ features added	11, 12	26/11/2018
1.6.0	Tolerate downgrades without losing parameters	Improvement/ features added	11, 12	09/11/2018
1.5.1	Added com start-up mode 4 - start in serial mode with nopreamble output	Improvement/ features added	11, 12	23/10/2018
1.5.0	Added 20 kHz fast mode	Improvement/ features added	11, 12	17/10/2018
1.4.3	Improved soft start	Improvement/ features added	11, 12	09/10/2018
1.4.2	Slow SPI used byte default	Improvement/ features added	12	08/10/2018