

SF20/C & LW20/C firmware revision history

Firmware version	Change log	Description	Hardware revision	Release date
4.3.1	Default LED state during production was found to be in "OFF" state.	Improvement/ features added	19	16/5/2023
4.3.0	<ul style="list-style-type: none"> 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
4.2.1	<ul style="list-style-type: none"> There has been a limit of 16 bytes on the I2C communication packet length and this has been fixed to accommodate the full lengths required by some of the data outputs. The LED state can be changed via the Parameters tab in Studio and the selected state is then saved in memory. On the Legacy serial data stream, enable with command "#SU,1" and the legacy serial distance output requested by command "d" and "D", the option to remove the "space" at the start of the output value has been added to the Parameters tab in Studio. This selection is saved to memory. 	Major	18	19/04/2023
4.2.0	Improved stability at 2.5kHz and 5kHz Same 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) <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> LW20/C BMT1 	Improvement/ features added	16	26/08/2019
2.0.5	Fixed: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Measurement rate could be incorrect at start-up 	Minor	11, 12	04/09/2019
1.9.2	Changed: <ul style="list-style-type: none"> 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 closest distance 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